

Biomag 2014

Halifax, Nova Scotia, Canada

August 24 – 28, 2014



Program

www.biomag2014.org

Sunday Aug 24		Monday Aug 25		Tuesday Aug 26		Wednesday Aug 27		Thursday Aug 28	
8:00		REGISTRATION		REGISTRATION		REGISTRATION		REGISTRATION	
8:30		PANG, DUNKLEY & JETLY Symposium 1 Room 2000	QURAAN Symposium 2 Room 200C	GAETZ ISACM Symposium 3 Room 2000	KNAPPE SANDER & PARKKONEN Symposium 5 Room 200C	GRAMFORT Symposium 12 Room 2000	BAHRAMI-SHARIF & BAILLET Symposium 14 Room 200C	DAFFERTS-HOFER Symposium 18 Room 202	DELLA PENNA Symposium 19 Room 200C
9:00									
9:30									
10:00									
10:30		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK	
11:00		Dr. R. Hari Keynote Lecture		Dr. E. Halgren Keynote Lecture		Dr. G. Barnes Keynote Lecture		Dr. O. Jensen Keynote Lecture	
11:30									
12:00		Lunch with Poster Session 1		Data Comp	Lunch with Poster Session 2	Lunch with Poster Session 4		Lunch Zimmerman prize award Business Meeting	
12:30									
13:00									
13:30									
14:00	REGISTRATION	NAKASATO ISACM Symposium 1 Room 2000	JERBI & SINGH Symposium 3 Room 200C	WIEKHORST Symposium 6 Room 202	JOUSMAKI & DE TIEGE Symposium 7 Room 2000	Hot Topics and Zimmerman prize talk Room 2000	KIM Symposium 15 Room 200C	LITVAK & BUTZ Symposium 21 Room 200C	SHIRASHI Symposium 23 Room 2000
14:30									
15:00									
15:30									
16:00		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK	
16:30		FUNKER ISACM Symposium 2 Room 2000	ROBINSON, WOOLRICH, BARNES & BROOKES Symposium 4 Room 200C	BARDOUILLE Symposium 9 Room 200C	HERRING Symposium 10 Room 202	JONES Symposium 16 Room 2000	DOESBURG Symposium 17 Room 200C	BAUMGARTEN Symposium 22 Room 202	
17:00									
17:30									
18:00	Dr. P. Morris Opening Keynote			Poster Session 3 and "Happy Hour"				Closing Ceremony	
18:30									
19:00	Welcome Reception WTCC								
19:30									
20:00									
20:30									
21:00									
21:30									
22:00									
22:30									
23:00									



...seeing brain function
with millisecond resolution

With Elekta Neuromag® TRIUX, it's reality.



Elekta Neuromag® TRIUX is a highly sophisticated magnetoencephalography system used to localize epileptic foci before surgery and in clinical research of the brain. With its unique sensor design and millisecond resolution, Elekta Neuromag® TRIUX provides the needed sensitivity.

NM25115B





NOW AVAILABLE !

DSQ-3500 Electronics Subsystem
For CTF MEG instruments



Unparalleled Real-Time Performance

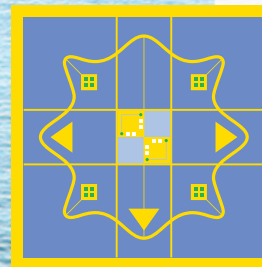
Includes New EEG Option

Available for 151 and 275 Channel Sensors

Ask Us for Details at Our BIOMAG 2014 Booth

Performance You Can Trust

MEG International Services Ltd.



The 19th International Conference on Biomagnetism

Table of Contents

Inside front cover	Program at a Glance
4	Welcome from the Premier
5	Welcome from the Co-Chairs
6	Organizing Committee
	Local Organizing Committee
	Scientific Committee
	Awards Committee
	IAB members
7	Biomag 2016
8	General Conference Information
	Venue Information
	Registration and Information Desk
	Name Badges
	Message Board
	Speaker Ready Room
	Tourism Information
	Local Transportation
	Wi-Fi
10	Keynote Speakers
12	Social Program
14	Awards
15	Industry Meets Science:
	Technology Showcase
16	Satellite Meetings
17	Keynote Sessions
18	Symposia Sessions
32	Poster Sessions
64	Index by Author
75	WTCC Floor Plan
76	Exhibitor/Poster Floor Plans
78	Notes
Inside back cover	Map of Halifax

Halifax



Premier's Message

On behalf of the people of Nova Scotia, welcome to our province and to BioMag2014. This conference is an opportunity to expand partnerships and knowledge among international leaders in Biomagnetism, biotechnology, life sciences and medical imaging.

From breakthrough research, to screening and detection, to diagnosis and treatment -- your work is pivotal to improving health care and to saving lives. And the connections you make at BioMag2014 will lead to further revelations about the brain and body and to new routes to recovery from illness and disease.

Here in Nova Scotia, government, industry and academia are all focused on supporting innovative research and next-generation health care advances. I'd like to thank our biomedical community in Nova Scotia and the industry leaders who helped make BioMag2014 happen.

I'd also like to recognize the efforts of the clinicians, engineers, scientists and students who travelled here from all over the world to share their discoveries and expertise. From bench to bedside, your pioneering work is leading to advances in health care and medical technologies that are making a difference in the lives of Nova Scotians and in the lives of people around the world.

Sincerely,

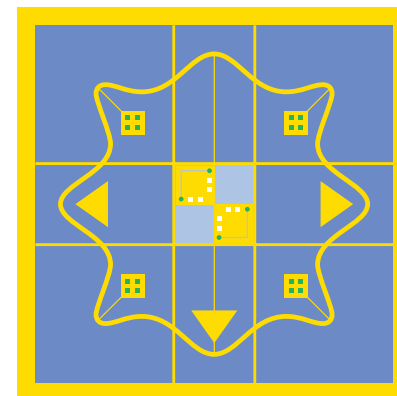
Honourable Stephen McNeil, M.L.A.
Premier



The 19th International Conference on Biomagnetism, BioMag2014, welcomes you to Halifax, Canada.

As is traditional with BioMag meetings, the scientific programme includes technological, methodological and high-level fundamental research in MEG and other fields of biomagnetism. We have a number of specific aims for this conference's scientific program, which include highlighting the new and emerging techniques in biomagnetism, the latest approaches to the analyses of these complex signals and catalyzing the development of clinical applications.

Building on the multimodal emphasis of BioMag2012 in Paris, we are also highlighting the role of converging methods in the neurosciences involving the advancement of basic and applied studies in biomagnetism. These include the integration of MEG with MRI, fMRI, EEG and TMS studies. In particular, there are a number of presentations, and a satellite meeting, focussed on the ultra-low field MRI and the combination with MEG, as well as a symposium and posters on the imaging of magnetic nanoparticles.



We also focus on translational applications (such as those in neurology, ageing, psychiatry and brain injury). This is highlighted by the fact that we are cooperating with the International Society for the Advancement of Clinical Magnetoencephalography (ISACM) and have three symposia included in BioMag2014 where the presenters are speaking on MEG in clinical applications.

There will be the usual and time-honoured lively discussions in the symposia and poster sessions on the latest analysis techniques, from new pipelines, toolboxes through to computational and neural modelling approaches, methodological challenges and new connectivity and source analysis models.

This promises to be a superb meeting in beautiful Halifax, one of the oldest seaports in North America. We hope that you enjoy it fully and leave with new friends and collaborations to be renewed in 2016 in Seoul, Korea at the 20th BioMag conference.

The BioMag2014 organising committee

Margot Taylor
Ryan D'Arcy

Steven Beyea
Gerhard Stroink

Committees

Organizing Committee

Steven Beyea (Co-Chair)	Denise Lalanne
Ryan D'Arcy (Co-Chair)	Gerhard Stroink
Margot Taylor (Co-Chair)	

Local Organizing Committee

Denise Lalanne	Lorraine Doridiam
Dawn Baldwin	Jocelyn Hiltz
Ryan D'Arcy	Matthew MacLellan
Gerhard Stroink	Steven Beyea
Butch Postma	Margot Taylor
Marli MacNeil	Scott Moffitt
Nancy Flam	Ryan Kucey

Scientific Committee

Margot Taylor (Chair)	Canada	Joachim Gross	UK
Ryan D'Arcy	Canada	J. Matias Palva	Finland
Gerhard Stroink	Canada	Hubert Priessl	Germany
Tim Bardouille.	Canada	Matt Brookes	UK
Eric Halgren	USA	Gian Luca Romani	Italy
Sylvain Baillet	Canada	Michael Funke	USA
Elizabeth Pang	Canada	Susan Bowyer	USA
Urs Ribary.	Canada	Steven Beyea	Canada
Olivier Bertrand	France	Ole Jensen.	Netherlands
Risto Ilmoniemi.	Finland	Doug Cheyne.	Canada
Catherine Tallon-Baudry.	France	Chun Kee Chung	Korea
Yong-Ho Lee.	Korea	Nobukazu Nakasato	Japan
Isao Hashimoto	Japan	Matti Hamalainen.	USA

Awards Committee

John Mosher (Chair)	USA	Ismail Mohamed	Canada
Shaun Boe	Canada	Teresa Cheung.	Canada
Timothy Roberts.	USA	Karim Jerbi	Canada
Robert Van Dijke.	Netherlands	Kensuke Sekihara	Japan
Sarang Dalal	Germany	Carsten Wolters.	Germany
Nina Forss	Finland		

International Advisory Board

Olivier Bertrand (Chair)	Lyon, France
Selma Supek (Secretary General).	Zagreb, Croatia
Douglas Cheyne	Toronto, Canada
David Cohen.	Boston, USA
Ryan D'Arcy	Vancouver, Canada
Luder Deecke	Vienna, Austria
Sergio Erne	Jena, Germany
Eric Halgren	San Diego, USA
Jens Haueisen	Jena, Germany
Toivo Katila	Helsinki, Finland
Shinya Kuriki.	Inzai, Japan
Gian Luca Romani	Chieti, Italy
Shoogo Ueno	Fukuoka, Japan
Harold Weinberg	Burnaby, Canada
Chris Wood	Santa Fe, USA



Organized by the Korean Society of Bioelectromagnetism, the 20th International Conference of Biomagnetism will take place in Seoul, Korea on October 1-6, 2016. For more information please contact biomag2016@biomag2016.org.

General Conference Information

Registration and Information Desk

The 19th International Conference on Biomagnetism Registration and Information Desk is located on the first level of the World Trade and Convention Centre, near the base of the escalators and outside the Poster/Exhibit area. We encourage you to use the resources of our registration team. We will do our best to ensure your experience at Biomag 2014 is smooth and memorable.

REGISTRATION AND INFORMATION DESK HOURS

Sunday, August 24 2:00 pm – 7:00 pm
Monday, August 25 7:00 am – 5:00 pm
Tuesday, August 26 8:00 am – 5:00 pm
Wednesday, August 27 8:00 am – 5:00 pm
Thursday, August 28 8:00 am – 5:00 pm

Conference Program Venues

All keynote lectures, symposia, posters and exhibits will be held at the World Trade and Convention Centre (WTCC) at 1800 Argyle Street in Halifax. Room locations are noted in this program. A floor plan of the WTCC is included on page 80 of this program for your reference. On Sunday evening, the Opening Keynote Session and Reception will be held in the Grand Ballroom on the second floor of the WTCC.

There will be one official conference event hosted outside of the WTCC. On Wednesday evening, the Gala Dinner will be held at the Canadian Museum of Immigration at Pier 21. Pier 21 is approximately a 20-minute walk from the WTCC along the Halifax waterfront or a short cab ride away. Shuttle service will be provided from the WTCC to Pier 21 to bring registered delegates to the Gala Dinner. The shuttle will begin at 6:45 pm and run until 7:30 pm.

Name Badges

Conference registrants must wear name badges to gain access to all conference activities. Should you misplace your name badge, please request your replacement at the Registration Desk.

Wi-Fi

The World Trade and Convention Centre has complimentary **Wi-Fi** for all conference delegates. To access, use the password: **Bio14**.

Message Board

A message board will be set up near the Registration Desk. We encourage you to check the board daily for messages, job postings and program announcements.

Speaker Ready Room

The conference Speaker Ready Room is located in Room 201 and is equipped with both Mac and PC computers. Volunteers will be present in the Speaker Ready Room during the hours listed below to offer assistance.

Please submit your presentation to the volunteers in the Speaker Ready Room the **day before** you are presenting. Presentations will only be accepted on USB thumb drives. Presentations should be labeled by Symposia number (e.g. S1, S2, S3) and author.

SPEAKER READY ROOM HOURS:

Sunday, August 24 2:00 pm – 5:00 pm
Monday, August 25 8:00 am – 5:00 pm
Tuesday, August 26 8:00 am – 5:00 pm
Wednesday, August 27 8:00 am – 5:00 pm
Thursday, August 28 8:00 am – 12:00 pm

Tourism Information

Please check in at the Registration and Information Desk for information on where to eat, what to do and sites to see during your stay in Halifax. Whether you're looking to escape to the beach, take a stroll through the local parks, visit local artisans at the Seaport Farmers' Market or just get some shopping done while you're here, these are the people to ask!

Local Transportation (Bus, Ferry, Taxi)

Halifax is very pedestrian friendly, with pleasant downtown parks and green spaces. Halifax Metro Transit offers bus services around the city and also operates a ferry service between Halifax and Dartmouth. Metro Transit, including fares for the ferry service, are \$2.50 for one way fare. Taxis are also readily available, with stands located outside of most hotels. There is also a direct line to taxis at the front entrance of the WTCC.

Keynote Speakers

Dr. Peter Morris

Dr. Peter Morris was trained in theoretical physics at Cambridge and in magnetic resonance at Nottingham. He helped to construct a whole body MRI system (now in the London Science Museum) and to establish the fundamental principles of MRI. He moved to the MRC's National Biomedical NMR Centre and then to Cambridge, where he studied cardiac calcium transients. Peter returned to Nottingham, becoming head of its MR centre in 1994. He lead a programme on ultra-high-field MRI, multimodal imaging (fMRI, EEG and MEG) and the use of MRS to understand the metabolic basis of neural activation - work recognized in the Sylvanus Thompson Medal of the BIR. He has served as Board Member of the MRC (twice), on the Physics Panel of NSERC (Canada) and currently serves on the Advisory Board of the MPI for Human Cognitive and Brain Sciences, and the Clinical Medicine Sub-panel for REF2014.

Dr. Riitta Hari

Dr. Riitta Hari, M.D. is the director of the multidisciplinary Brain Research Unit of the O.V. Lounasmaa Laboratory at Aalto University, Finland. She obtained her Doctor of Medicine degree in 1980 and her specialist of clinical neurophysiology qualification in 1981, both from the University of Helsinki, Finland. Riitta Hari has pioneered the use of magnetoencephalography (MEG) in providing insights into different aspects of brain function in both healthy subjects and patient groups. Her research interests include systems-level human neuroscience and brain imaging, with the focus on sensory systems and social interaction. Riitta Hari received the Advancement of European Science Award in 1987, the Louis-Jeantet Prize for Medicine in 2003 and the Finnish Science Award in 2009. She is a foreign member of the US National Academy of Sciences from 2004 and an Academician of Science, one among 12 in Finland, from 2010.

Dr. Eric Halgren

Dr. Eric Halgren is the co-director of the Multimodal Imaging Laboratory of the University of California, San Diego School of Medicine. He received his PhD in Neurosciences from UCLA in 1976, studying memory using single-unit recordings and electrical stimulation in the human medial temporal lobe. His research projects combine functional magnetic resonance imaging (fMRI), magnetoencephalography, and electroencephalography, within the context of structural MRI, for high-resolution spatiotemporal mapping of brain activity during cognition. He validates these measures using intracranial recordings from microelectrode arrays in patients with epilepsy. Dr. Halgren attempts to identify, locate, and characterize the neurocognitive stages used to encode and interpret events. Of particular interest are middle latency focal processes that encode faces and words, and later distributed processes that embody lexico-semantic integration.

Dr. Gareth Barnes

Dr. Gareth Barnes completed his PhD using magnetoencephalography (MEG) at Aston University in 1996. After brief post-docs in Juelich and Montreal, he returned to Aston to work from 2000-2009. In 2009, he moved to UCL where he is currently the head of MEG at the Wellcome Trust Centre for Cognitive Neuroimaging. His main interest is MEG source reconstruction with particular focus on the statistical and spatial properties of these images.

Dr. Ole Jensen

Dr. Ole Jensen received his MSc degree in electrical engineering at the Technical University of Denmark. He later completed his PhD in neuroscience at Brandeis University working on computational modeling of oscillatory networks. As a postdoctoral fellow he applied magnetoencephalography (MEG) to address questions on brain dynamics and human cognition at the Brain Research Unit, Low Temperature Laboratory, Helsinki University of Technology. In 2002 he moved to the Donders Institute for Brain, Cognition and Behavior. His research focuses on linking oscillatory brain activity to cognition: how does oscillatory brain activity shape the functional architecture of the working brain in the context of memory and attention.

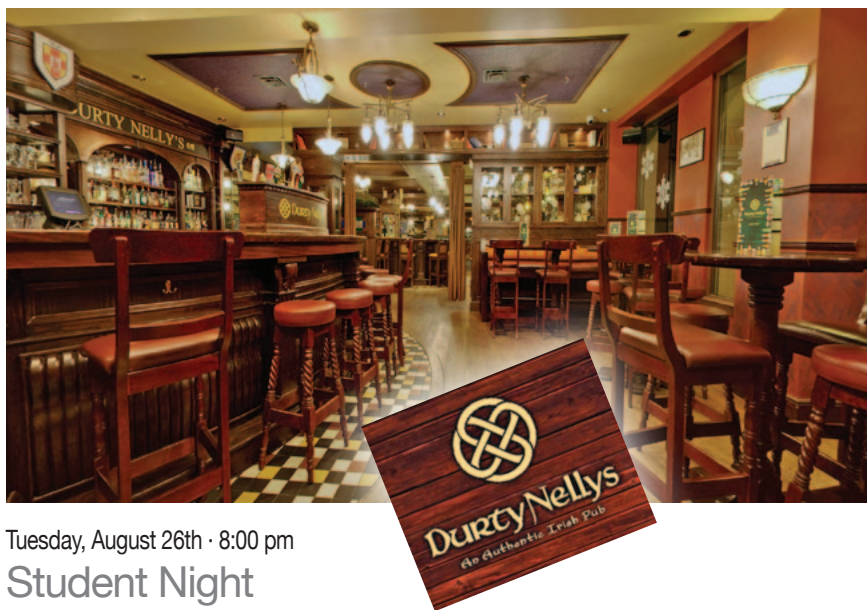
Social Program

Sunday, August 24th · 7:00 pm – 9:00 pm

Welcome Reception

Grand Ballroom, World Trade and Convention Centre

Please join us for the opening welcome reception following the opening keynote session. This will be a great chance to catch-up with old friends, make some new ones and get ready for the week ahead. Reception music provided by local fiddler, **Alycia Putnam**, will start our meeting with some Maritime flair and excitement.



Tuesday, August 26th · 8:00 pm

Student Night

Durty Nelly's, 1660 Argyle St

Stop by for drink and appetizer specials, meet colleagues and make some new friends. Just a block away from the World Trade and Convention Centre, *Durty Nelly's* is an authentic Irish Pub in downtown Halifax. What makes *Durty Nelly's* truly authentic is their attention to all the details that make a true Irish experience. From the art of pouring the perfect pint to designing a menu that brings traditional Irish favourites to the Maritimes, *Durty Nelly's* provides its customers with the original "Craic" of Ireland. For those in attendance, you will automatically be entered to win a \$100 *Durty Nelly's* gift card.



Wednesday, August 27th · 7:00 pm - Midnight

Gala Dinner

Canadian Museum of Immigration at Pier 21, 1055 Marginal Road

Traditionally, many social calls in Nova Scotia culminate with guests gathering in the kitchen of the host's home for an experience of music, traditional maritime food and good company — so get ready for some down-home Maritime hospitality! The Gala Dinner will feature a succulent lobster dinner with wine, a cash bar and local entertainment that will be sure to keep your toes tapping and hands clapping all night! (For those hesitant to trying the lobster, a BBQ chicken and vegetarian option will be offered as an alternate choice.)

Before dinner starts we invite you to tour the **Museum at Pier 21** during the reception. For many Canadians who came seeking adventure, employment and greater opportunities for their children, Pier 21 was their introduction to a new country. Many newcomers were happy just to be off their ship after a long and harrowing crossing over the Atlantic Ocean. In the Rudolph P. Bratty Exhibition Hall, exhibits will be open to provide you with the opportunity to discover our nation's rich multicultural history. Tour Guides will be on hand to provide information and answer any questions you may have.

Space for the Gala Dinner is limited and open to registered Biomag delegates (and their guests) only. Tickets are included in your registration package if you have pre-registered and will be required at the door. If you would like to attend please check in at the Registration Desk before noon on Tuesday, August 26th to see if seats are still available to purchase. Tickets are \$95 plus tax.

Biomag 2014 Awards

AWARDS DETAILS

The Biomag 2014 awards program supports and recognizes research excellence in the field of Biomagnetism. Prizes will be presented at the awards ceremonies at the Biomag 2014 Gala Dinner at Pier 21 on Wednesday, August 27th unless otherwise indicated.

MID-CAREER AWARD

The Mid-Career Award (MCA) recognizes the contribution of a scientist at the mid-career level who has made significant contributions to the field of biomagnetism research and to encourage such a scientist to help bring this field to a new level of advancement.

The winner will be awarded: \$5,000 CAD.

YOUNG INVESTIGATOR AWARDS

Three Young Investigator Awards (YIA) will be given to post-doctoral fellows. There are three categories for the Young Investigator Awards: Theory & Modeling, Instrumentation, and Applications. There is one prize for each category. Each winner will be awarded: \$500 CAD.

BEST PHD POSTER AWARDS

Three Best PhD Poster Awards (PPA) will be awarded to PhD students during Biomag 2014. Participation is limited to doctoral students and each participant must have submitted a poster as a first author and be present at Biomag 2014 during his or her poster session. Prizes will be awarded based on the originality of contribution, presentation skills, as well as thoroughness and scientific merit of data analysis; design and methodology; discussion and interpretation of findings; significance and anticipated impact of findings. The award amount for each PPA is \$300 CAD.

JAMES ZIMMERMAN PRIZE

The James Zimmerman Prize (JZP) is an award celebrating the early pioneering work of James Zimmerman in the applications of SQUID technology. The International Advisory Board (IAB) and Biomag 2014 collaborated with the International Federation of Medical and Biological Engineering (IFMBE) for the JZP. The IFMBE has agreed to sponsor the award on a biannual basis during the Biomag conference.

The JZP has been awarded to **Dr. Myriam Pannetier-Lecoeur** (Saclay, France). As the winner, she will be awarded a JZP plaque and 1,000 €. She will be receiving the award during the Biomag 2014 business meeting on Thursday, August 28th. She will be describing her work ("MIXED SENSORS: SPIN ELECTRONICS-BASED MAGNETOMETERS FOR BIOMAGNETISM") during the HOT TOPIC session Wednesday afternoon, as well as at poster (P2-036). We thank the JZP committee (chair Dr. John Mosher) for their hard work.



DATA ANALYSIS COMPETITION

Two Data Analysis Competitions took place prior to the conference:

Challenge 1: **Biomag 2014 Decoding Challenge: Brain Decoding Across Subjects (DecMeg2014)**

ORGANIZERS: **Emanuele Olivetti**, **Seyed Mostafa Kia** and **Paolo Avesani** (Neuroinformatics Lab, Bruno Kessler Foundation and University of Trento, IT)
EMAIL: decmeg2014@list.fbk.eu

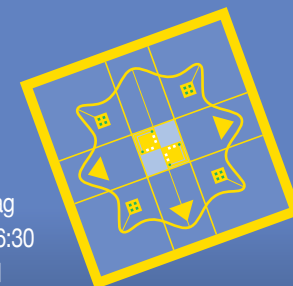
Challenge 2: **Causality Challenge**

ORGANIZERS: **Andreas Daffertshofer**, (MOVE Research Institute Amsterdam, Faculty of Human Movement Sciences, VU University Amsterdam, EMAIL: a.daffertshofer@vu.nl) and **Guido Nolte** (Dept. of Neurophysiology and Pathophysiology, UKE Hamburg, EMAIL: g.nolte@uke.de)

The challenge solutions will be reviewed on Tuesday, August 23rd at 12:30 pm in Room 202 for all those interested in attending. The Competition prizes will be awarded at the closing ceremony.

Industry Meets Science: Technology Showcase

We are excited to introduce our **Industry Meets Science: Technology Showcase** to this year's Biomag conference. Taking place on Monday, August 25th at 6:30 pm in Room 200C, the showcase will feature new and emerging technologies from our sponsors and exhibitors. Join us for happy hour and learn more about these exciting new technologies.



Satellite Meetings

All Satellite Meetings will take place at the Kenneth C. Rowe Management Building at Dalhousie University at 6100 University Ave in Halifax.

SATELLITE 1: SATURDAY, AUG 23, 8:30 AM– 5:00 PM

“Zero to Hero”: An overview of MEG data acquisition, analysis and interpretation

CHAIRS: **Matthew Brookes** (Nottingham, UK), **Matti Hamalainen** (Charlestown, USA) and **T. Bardouille** (Halifax, Canada)

SATELLITE 2: SUNDAY, AUG 24, 10:30 AM–6:30 PM

Biomagnetic signal processing: Denoising, source localization and connectivity analysis

CHAIRS: **S Nagarajan** (San Francisco, USA) and **K Sekihara** (Tokyo, Japan)

SATELLITE 3: SUNDAY, AUG 24, 8:30 AM–12:30 PM

Open Source software for MEG analysis

CHAIR: **R Oostenveld** (Nijmegen, Netherlands)

SATELLITE 4: FRIDAY, AUG 29, 8:30 AM– 6:00 PM

Ultralow field magnetic resonance imaging

CHAIR: **J Clarke** (Berkeley, USA)

SATELLITE 5: FRIDAY, AUG 29, 8:00 AM– 6:00 PM

Brainstorm Community Workshop

CHAIR: **F Tadel** (Montreal, Canada)



For further details please visit the website at
<http://www.biomag2014.org/satellites.shtml>

Keynote Sessions

SUNDAY, AUGUST 24TH, 6:00 PM

K1: Multimodal neuroimaging: Integration of MEG, fMRI and MRS approaches

Dr. Peter Morris

Sir Peter Mansfield Magnetic Resonance Centre,
University of Nottingham, Nottingham, UK

CHAIR: **Ryan D’Arcy**

MONDAY, AUGUST 25TH, 11:00 AM

K2: Brain imaging of social interaction—why and how?

Dr. Riitta Hari

Aalto University, Finland

CHAIR: **Gerhard Stroink**

TUESDAY, AUGUST 26TH, 11:00 AM

K3: What is the N400m?

Dr. Eric Halgren

Radiology, Neurosciences and Psychiatry,
University of California San Diego, USA

CHAIRS: **Margot Taylor** and **Chun Kee Chung**

WEDNESDAY, AUGUST 27TH, 11:00 AM

K4: More structure more function

Dr. Gareth Barnes

Wellcome Trust Centre for Neuroimaging,
University College London, London, UK

CHAIR: **Steven Beye**

THURSDAY, AUGUST 28TH, 11:00 AM

K5: Linking mechanism to behavior: Neuronal oscillations provide a mechanism for prioritizing sensory processing

Dr. Ole Jensen

Donders Institute for Brain, Cognition and Behaviour,
Radboud University, Nijmegen, The Netherlands

CHAIRS: **Olivier Bertrand** and **Kiwoon Kim**

Monday Symposia

August 25th

8:30 am – 10:30 am Room 200D

Symposium 1

MEG as a diagnostic tool for post-traumatic stress disorders in military combatants

CHAIRS: Elizabeth Pang, Benjamin T Dunkley, R. Jetly

Modulation of synchronous neural interactions (SNI) with trauma as revealed by magnetoencephalography

Apostolos P. Georgopoulos

Developing MEG and DTI markers for PTSD

Mingxiong Huang

Connectivity strength in memory structures correlates with symptom-specific outcomes in PTSD veterans

Benjamin T. Dunkley

Post-traumatic stress disorder and its impact on set-shifting

Elizabeth W. Pang

Networks, noise and PTSD

Bratislav Mišić

8:30 am – 10:30 am Room 200C

Symposia 2

Network dysfunction in neurological and psychiatric disorders:

What have we learned?

CHAIR: Maher Quraan

Biases in brain network analyses: Does the minimum spanning tree provide a solution?

Arjan Hillebrand

Epilepsy surgery outcome and functional network alterations in longitudinal MEG: A minimum spanning tree analysis

Edwin van Dellen

Oscillatory network plasticity in schizophrenia and stroke

Srikantan Nagarajan

Reduced network coherence in autism: Emerging perspectives across age and task

Sam Doesburg

Functional connectivity and graph theory in EEG and MEG and application to temporal epilepsy and depression

Maher Quraan

2:00 pm – 4:00 pm Room 200D

ISACM Symposium 1

Current standard of clinical care

CHAIR: Nobukazu Nakasato

Epilepsy theory and grounding

Stephan Rampp

Sensitivity and specificity of seizure-onset zone estimation by ictal MEG

Ritva Pateau

Clinical challenges in pediatric epilepsy: Role of MEG

Gretchen Von Allmen

Identifying the epileptogenic zone with MEG: Myths and realities

Richard Burgess

The coming of age of magnetoencephalography

Anto Bagic

2:00 pm – 4:00 pm Room 200C

Symposium 3

Getting a grip on MEG gamma-band oscillations:

New insights from multimodal studies

CHAIRS: Karim Jerbi, Krish Singh

Is there a relationship between MEG gamma activity and the fMRI BOLD signal?

Johanna Zumer

MEG, MRS, drugs and dynamic causal modeling - studies of gamma oscillatory dynamics and their relationship to synaptic excitation/inhibition

Krish Singh

Are gamma oscillations related to resting GABA-A receptor density? Combining insights from MEG and Flumazenil-PET

Karim Jerbi

Comparing MEG, EEG and ECoG recordings of high-frequency activity

Lauri Parkkonen

Gamma Gamma Hey -- when and where does high-frequency MEG activity correspond with intracranial EEG findings?

Sarang Dalal

Monday Symposia

August 25th continued

4:30 pm – 6:30 pm Room 200D

ISACM Symposium 2

Emerging clinical indications

Chair: Michael Funke

The MAGIC-AD project: Towards an MEG biomarker in dementia

Fernando Maestú

Cortico-basal ganglia oscillatory connectivity and the pathophysiology of Parkinson's disease: insights from simultaneous MEG and deep brain recordings in Parkinsonian patients
Ashwini Oswal

From BabySQUID to BabyMEG: Recent advances in clinical pediatric magnetoencephalography
Christos Papadelis, B. Ahtam, C. Doshi, T. Nayak, M. Hamalainen, E. Grant, Y. Okada

MEG and mild traumatic brain injury/concussions

Rowland R. Lee, Mingxiong Huang

MEG and stroke recovery

Nina Forss

4:30 pm – 6:30 pm Room 200C

Symposium 4

Nonlinear and transient descriptions of brain activity

Chairs: Stephen Robinson, Mark Woolrich, Gareth Barnes, Matt Brookes

Neural information dynamics as seen by MEG

Michael Wibral

Dynamic centrality as a mechanism of cross-network coupling

Francesco de Pasquale

The disordered brain: Measuring neural network complexity in schizophrenia and neurodevelopment

Matthew Brookes

Fast transient networks in spontaneous brain activity

Adam Baker

Bereitschaftskomplexität: Going beyond the apparent

Surjo Soekadar

EEG source imaging of brain resting microstates

Anna Custo and Christoph M. Michel

Metastability and collective frequencies in oscillatory brain networks

Joana Cabral

A task-independent network revealed by symbolic mutual information

Stephen Robinson

Tuesday Symposia

August 26th continued

8:30 am – 10:30 am Room 200D

ISACM Symposium 3

Advances in multi-modal integration

Chair: William Gaetz

Multimodal imaging in the operating theater: The Houston experience

Jeremy Slater

Putting the "Bio" into biomarker

Tim Roberts

Integrating multiple imaging modalities of spontaneous brain activity

Steve Stufflebeam

Oscillations and brain structure in psychiatry

Chris Edgar

Resting-state and task-induced oscillatory biomarkers in health and disease: Their use, relationship to MR measures, and neurophysiologically informed modelling

Krish Singh

8:30 am – 10:30 am Room 200C

Symposium 5

Optically-pumped magnetometers for MEG

Chairs: Svenja Knappe, Lauri Parkkonen, Tilmann Sander

Chip-scale optically-pumped magnetometers for MEG

Svenja Knappe

What do we gain by measuring MEG right on the scalp?

Lauri Parkkonen

Retro-reflection brain atomic magnetometer system and source localization

Kiwoong Kim

Progress toward a multi-channel magnetoencephalography system using optically pumped atomic magnetometers

Peter Schwindt

Tuesday Symposia

August 26th *continued*

2:00 pm – 4:00 pm Room 202

Symposium 6

Magnetic nanoparticle imaging based on AC susceptibility and magnetorelaxometry measurements

Chair: Frank Wiekhorst

Characterization and localization of cancer using magnetic relaxometry

Edward R. Flynn

Quantitative imaging of magnetic nanoparticle distributions in animal-sized phantoms using magnetorelaxometry

Maik Liebl

Experimental results on magnetorelaxometry imaging of magnetic nanoparticles with m-sequence based inhomogeneous excitation fields

Daniel Baumgarten

How to adapt magnetorelaxometry activation setups for quantitative magnetic nanoparticle reconstructing under realistic noise conditions?

Annelies Coene

AC susceptibility imaging of magnetic nanoparticles

Solomon G. Diamond

Combining superparamagnetic relaxometry with ultra-low field MRI for early cancer detection

Per Magnelind

2:00 pm – 4:00 pm Room 200D

Symposium 7

The multiple facets of coherence analysis: From neurophysiology to clinical applications

Chairs: Xavier De Tiège, Veikko Jousmäki

Coherence analysis with magnetoencephalography: Methodological considerations

Joachim Gross

Exploring coupling between cortex and motor actions with corticokinematic coherence

Harri Piitulainen

Probing action observation with coherence analysis

Mathieu Bourguignon

Corticovocal coherence: a new tool to investigate speech neurophysiology

Marc Vander Ghinst

2:00 pm – 4:00 pm Room 200C

Symposium 8

SLEEPING in the MEG

Chairs: Jean-Marc Lina, Julie Carrier

Multiscale neural recordings of spindles in human cortex and subcortical structures

Sydney Cash

Alteration in spontaneous oscillatory activities during sleep associated with environmental adaptation and learning

Masako Tamaki

Grouping of MEG gamma oscillations by EEG sleep spindles and sleep slow oscillations

Matthias Molle

Sleep spindles reflect cognitive processing in neuropsychiatric disorders

Yuko Urakami

4:30 pm – 6:30 pm Room 200C

Symposium 9

The 'How' and 'Why' of real-time neuroimaging in MEG: Implementation and clinical applications

Chair: Tim Bardouille

The 'How' and 'Why' of real-time neuroimaging in MEG: Implementation and clinical applications

Tim Bardouille

Real-time MEG: Implementation and application

Lauri Parkkonen

Targeted reinforcement of neural oscillatory activity with real-time neuroimaging feedback

Sylvain Baillet

Real-Time neurofeedback during mental imagery: Implications for stroke recovery

Shaun Boe

Neurofeedback as treatment of chronic tinnitus: Approaches and perspectives

Thomas Hartmann

Tuesday Symposia

August 26th *continued*

4:30 pm – 6:30 pm Room 202

Symposium 10

Combining transcranial current stimulation with MEG: Problems, solutions, and perspectives

Chair: Jim Herring

Simultaneous in vivo assessment of large-scale cortical field activity during transcranial electric stimulation: perspectives and limitations

Surjo R. Soekadar, Matthias Witkowski, Niels Birbaumer, Stephen E. Robinson

Combining tDCS and MEG: The Cardiff experience

David J. McGonigle

Probing oscillatory activity in the visual system with tDCS/MEG and tACS/MEG

Jim D. Herring, Tom R. Marshall, Til O. Bergmann, Ole Jensen

Combining EEG and transcranial alternating current stimulation

Toralf Neuling, Randolph F. Helfrich, Stefan Rach, Johannes Vosskuhl, Till R. Schneider, Sina A. Trautmann-Lengsfeld, Andreas K. Engel, Christoph S. Herrmann

4:30 pm – 6:30 pm Room 200D

Symposium 11

States of consciousness in health and disease: New applications for MEG in research, in the clinic and at home

Chair: Andreas Ioannides

Brain activity in dissociative anaesthesia: MEG results from in healthy participants

David Liley

Electrophysiological slowing as a biomarker of localized cortical dysfunction

Jed A. Meltzer

EEG and MEG dynamics of sound and safe sleep

George K. Kostopoulos, Vasilios Kokkinos, Andreas M. Koupparis, Lichan Liu and Andreas A. Ioannides

MEG for personalized medicine: In the hospital and at home

Andreas A. Ioannides and Yuko Urakami

Wednesday Symposia

August 27th

8:30 am – 10:30 am Room 200D

Symposium 12

What is decoding and what can it bring to neuroscience?

Chair: Alexandre Gramfort

Definition, validation and examples of decoding with M/EEG

Alexandre Gramfort

Interpretation of weight vectors of decoding models

Stefan Haufe

Searching for biomarkers in Attention Deficit and Hyperactivity Disorder

Gustavo Sudre

Time-resolved decoding

Lauri Parkkonen

Decoding semantics from phrases and sentences using magnetoencephalography

Alona Fyshe

8:30 am – 10:30 am Room 202

Symposium 13

Novel developments in transcranial magnetic stimulation combined with electroencephalography

Chairs: Julio C. Hernandez-Pavon, Simone Sarasso

Methods for studying TMS-evoked EEG data

Julio C. Hernandez-Pavon

Assessing the electrophysiological correlates of cortical inhibitory mechanisms through combination of electroencephalography with transcranial magnetic stimulation

Faranak Farzan

EEG/MEG-rhythms of attentional selection targeted by frequency-tuned TMS to modify perception

Gregor Thut

Exploring human brain connectivity, excitability and plasticity with TMS-EEG

Mouhsin Shafi

Quantifying cortical EEG responses to TMS in (un)consciousness

Simone Sarasso

Wednesday Symposia

August 27th continued

8:30 am – 10:30 am Room 200C

Symposium 14

The functional role of cross frequency coupling

Chairs: Ali Bahramisharif, Sylvain Baillet

Dynamics of cross-frequency coupling in the resting & active states

Sylvain Baillet

Coupling between theta phase and gamma power in the hippocampal network

Laura Colgin

Measuring directionality between neuronal oscillations of different frequencies

Haiteng Jiang

Alpha and gamma-band oscillations during working memory: Networks, function and development

Frédéric Roux

2:00 pm – 4:00 pm Room 200D

Hot Topics Symposium

Chairs: Gerhard Stroink, Ryan D'Arcy

Mixed sensors: spin electronics-based magnetometers for biomagnetism

James Zimmerman Prize Winner

Myriam Pannetier-Lecoeur

Motor origin of temporal predictions in auditory perception

Benjamin Morillon, Sylvain Baillet, Valentin Wyart, Charles E. Schroeder

Phase-slope analysis reveals top-down directionality of fronto-temporal coherence in object-based attention

Daniel Baldauf, Robert Desimone

Using myelin density maps to inform M/EEG source reconstruction

Saskia Helbling, Sundeep Teki, Martina F. Callaghan, William Sedley, Siawoosh Mohammadi, Timothy D. Griffiths, Nikolaus Weiskopf, Gareth R. Barnes

MEG-derived neural oscillatory activity differentiates sentence processing from word list processing in theta, beta, and gamma frequency bands across time and space

Nietzsche Lam, Jan-Mathijs Schoffelen, Annika Hultén, Peter Hagoort

Retinal high-frequency oscillations drive corresponding rhythms in contralateral visual cortex

Sarang Dalal, Mathis Kaiser, Britta Westner, Tzvetan Popov

Can MEG distinguish subcomponents of the GABAergic signalling system?

David Nutt, Sue Wilson, Anne Lingford-Hughes, Ji Myers, Andreas Papadopoulos, Suresh Muthukumaraswamy

Brain connectivity measures: Application to epilepsy networks

Susan Bowyer, Basal Assad, Karen Mason, John Moran, Gregory Barkley, Norman Tepley, Andrew Zillgitt

Novel methods for improving source localization using hybrid ultra-low-field MRI and MEG

Koos C.J. Zevenhoven, Antti Mäkinen, Aino Tervo, Juhani Dabek, Risto J. Ilmoniemi

Hyperscanning MEG for understanding mother–child cerebral interactions

Masayuki Hirata, Takashi Ikeda, Minoru Asada, Mitsuru Kikuchi, Hirotoishi Hiraisi, Yuko Yoshimura, Tomoya Kimura

2:00 pm – 4:00 pm Room 200C

Symposium 15

Future perspectives on magnetocardiography

Chair: Kiwoong Kim

Diagnostic opportunities of the MCG: Cardiac currents, extracorporeal magnetic field and new sensor concepts

Hans Koch, Uwe Steinhoff

Assessing sensitivity and resolution of MCG and ECG

Matti Stenroos

Voltage-biased SQUID magnetometer based 36 channel magnetocardiograph system

Xiangyan Kong

Realizing the promise of fetal magnetocardiography

Ronald Wakai

Heart magnetic resonance

Kiwoong Kim

4:30 pm – 6:30 pm Room 200D

Symposium 16

From neurons to behavior: Advances in computational neural modeling to interpret MEG/EEG signals

Chair: Stephanie Jones

Interactions between core and matrix thalamocortical projections in human sleep spindle synchronization

Giri Krishnan, Tanya Baker, Maxim Bazhenov, Syd Cash, Eric Halgren, Terry Sejnowski

A model for phase coding in the visual system coordinated by gamma activity phase-locked to alpha oscillations

Bart Gips, Jan van der Eerden, Ole Jensen

Biophysically principled models of MEG/EEG current source signals reveals novel mechanisms of neural rhythms and their impact on function

Stephanie Jones, Christopher Moore, Ellen Grant, Yoshio Okada, Matti Hamalainen

Dynamic causal modeling: A mathematical microscope for the observation of neural system transmitters

Rosalyn J. Moran

The virtual brain: Delivery practical results for novel clinical applications

Petra Ritter, Victor Jirsa, Randy McIntosh

Wednesday Symposia

August 27th continued

4:30 pm – 6:30 pm Room 200C

Symposium 17

Brain oscillations and network connectivity in typical and atypical neurocognitive development

Chair: Sam Doesburg

Gamma phase synchrony in autism spectrum disorders - a biomarker for therapies

Timothy Roberts

Functional connectivity and entropy in development

Emma Hall

Disrupted brain connectivity in atypical development: insights from resting-state magnetoencephalography

Annette X. Ye

Age related changes of MEG alpha and gamma-band activity reflect the late maturation of distractor-inhibition during working memory maintenance

Frédéric Roux

Using MEG to investigate cortical biomarkers in children and adolescents with autism spectrum disorder

Tal Kenet

Thursday Symposia

August 28th

8:30 am – 10:30 am Room 202

Symposium 18

Cross-frequency coupling - methodological challenges

Chair: Andreas Daffertshofer

Cross-frequency coupling as a measure of brain interactions

Guido Nolte

Cross frequency correlations - when do they indicate coupling?

Michael Wibral

Bi-phase locking – a tool for probing non-linear information transfer in the brain

Felix Darvas

A computational model of cross-frequency coupling in rhythmic motor control

Tjeerd Boonstra

Estimating directional cross-frequency coupling from time-frequency spectra using dynamic causal modeling

Bernadette van Wijk

8:30 am – 10:30 am Room 200C

Symposium 19

Mechanisms of integration/segregation in the resting brain

Chair: Stefania Della Penna

Dwelling in the rich club: Connectomic determinants of brain dynamics

Michael Breakspear

Rapid resting-state-network dynamics

Juliane Britz

Measuring the temporal, spatial and spectral dynamics of functional connectivity

Matthew Brookes

Dynamics of cross-frequency coupling in the resting & active states

Sylvain Baillet

Architecture of MEG functional interactions at rest

Stefania Della Penna

8:30 am – 10:30 am Room 200D

Symposium 20

Evoked and induced oscillation in the auditory, visual and sensorimotor systems - mechanisms and applications

Chairs: Bernhard Ross, Blake Johnson

GABA and the auditory steady-state response

Donald C. Rojas, Debra Singel, Mark S. Brown

Gamma oscillations in a thalamocortical binding network explain deficits in speech-in-noise understanding in aging

Bernhard Ross

Entrained thalamo-cortical networks in fear conditioning

Chrysa Lithari, Stephan Moratti, Nathan Weisz

Modulation encoding in auditory cortex

Jonathan Z. Simon

Continuous speech entrains cortical brain oscillations

Joachim Gross

Sensorimotor oscillations related to predictive timing in musical rhythm processing in children and adults

Takako Fujioka, Laurel Trainor

Development of auditory and sensorimotor brain rhythms studied with a custom-sized pediatric MEG system

Blake W. Johnson, Huizhen Tang, Paul Sowman, Stephen Crain, Douglas Cheyne

Thursday Symposia

August 28th *continued*

2:00 pm – 4:00 pm Room 200C

Symposium 21

What disease teaches us about oscillations and vice versa

Chairs: Markus Butz, Vladimir Litvak

Oscillatory brain networks in movement disorders: An insight from combined MEG and intracranial recordings

Vladimir Litvak

Motor cortex oscillations and stroke recovery

Nina Forss

Oscillations and functional brain networks in multiple sclerosis

Prejaas Tewarie

The slowed brain: Cortical oscillatory activity in hepatic encephalopathy

Markus Butz

2:00 pm – 4:00 pm Room 202

Symposium 22

Real-time signal processing and source localization from MEG measurements

Chair: Daniel Baumgarten

MEG neurofeedback based on attention modulation of posterior alpha activity

Jörn M. Horschig

rtMEG: A real-time software for relaying MEG signals

Gustavo Sudre

Efforts for improving real-time controllability of motor imagery brain computer interface – EEG and simultaneous MEG/EEG

Sung Chan Jun

A toolbox for real-time neuroelectromagnetic source imaging

Christof Pieloth

MEG/EEG real-time analysis and real-time source localization

Christoph Dinh

2:00 pm – 4:00 pm Room 200D

Symposium 23

Impact investigation of MEG as direct diagnostic methods

Chair: Hideaki Shiraishi

Angelman syndrome

Kiyoshi Egawa

Focal cortical dysplasia

Midori Nakajima

Atypical benign partial epilepsy in childhood (ABPE)

Hideaki Shiraishi

Schizophrenia and autism spectrum disorder

Kazuyori Yagyu



Every child deserves a healthy start, a strong mind, and a bright future

SickKids®
RESEARCH
INSTITUTE

SickKids® | Centre for Brain
& Mental Health

 www.sickkids.ca/Brain-Mental-Health

Poster Session 1:

Monday August 25th,
12:00 pm – 2:00 pm

Analysis Toolboxes

P1-001

A DISCONTINUOUS GALERKIN
FINITE ELEMENT APPROACH
FOR THE EEG FORWARD
PROBLEM

ENGWER, Christian,
LUDEWIG, Jakob, VORWERK,
Johannes, WAGNER, Sven,
WOLTERS, Carsten

P1-002

MNE FOR MEG AND EEG DATA
PROCESSING: WHAT'S UP?

GRAMFORT, Alexandre,
LUESSI, Martin, LARSON,
Eric, ENGEMANN, Denis,
STROHMEIER, Daniel,
BRODBECK, Christian,
GOJ, Roman, JAS,
Mainak, BROOKS, Teon,
PARKKONEN, Lauri,
HAMALAINEN, Matti

P1-003

A TOOLBOX FOR REAL-TIME
NEUROELECTROMAGNETIC
SOURCE LOCALIZATION

PIELOTH, Christof,
KNÖSCHE, Thomas,
MAESS, Burkhard, FUCHS,
Mirco

P1-004

MEGA_STATS: A STATISTICAL
TOOLBOX FOR MEG, EEG &
INTRACEREBRAL EEG DATA
ANALYSIS

YAHIA CHERIF, Lydia,
SCHWARTZ, Denis

P1-005

ANYWAVE: A SOFTWARE
FOR VISUALIZING
AND PROCESSING
ELECTROPHYSIOLOGICAL
SIGNALS

COLOMBET, Bruno, BÉNAR,
Christian-George, BADIER,
Jean-Michel

P1-006

WEBMEG: AN INTERACTIVE
WEB-BASED TOOL FOR THE
VISUALIZATION AND ANALYSIS
OF MEG AND EEG DATA
DOSHI, Chiran, HAEHN,
Daniel, RANNOU, Nicolas,
GRANT, Ellen, OKADA,
Yoshio, PIENAAR, Rudolph,
PAPADELIS, Christos

P1-007

[MEG]PLS: A PIPELINE FOR
MEG DATA ANALYSIS AND PLS
STATISTICS.
CHEUNG, Michael,
KOVACEVIC, Natasa,
FATIMA, Zainab, MISIC,
Bratislav, MCINTOSH, Randy

P1-008

OPEN-SOURCE MEG/EEG
ACQUISITION SOFTWARE
SUN, Limin, DINH, Christoph
Dinh, OKADA, Yoshio,
HAMALAINEN, Matti

P1-009

SIMULTANEOUS MATCHING
PURSUIT DECOMPOSITION OF
EVOKED BRAIN RESPONSES
IN M/EEG USING SPATIO-
TEMPORAL DICTIONARIES
KORDOWSKI, Paweł,
MATYSIAK, Artur, KÖNIG,
Reinhard, SIELUŻYCKI,
Cezary

Artifact Detection and Correction

P1-010

REAL TIME OCULAR
AND CARDIAC ARTIFACT
REDUCTION IN MEG
BREUER, Lukas, DAMMERS,
Jürgen, ROBERTS, Timothy
P.L., SHAH, N. Jon

P1-011

VISUAL GAMMA
OSCILLATIONS RECORDED
WITH MEG ARE NOT
AFFECTED BY THE
MICROSACCADIC SPIKE
ARTEFACT.
WIECZOREK, Kacper,
MUTHUKUMARASWAMY,
Suresh D., SUMNER, Petroc,
SINGH, Krish D.

P1-012

APPLICATION OF REAL-TIME
ROBUST SIGNAL SPACE
SEPARATION TO BABYMEG
SYSTEM
LEW, Seok, HÄMÄLÄINEN,
Matti, OKADA, Yoshio, Li, Xun

P1-013

AN AUTOMATIC ALGORITHM
FOR FINDING AND CLEANING
CONTAMINATED MEG AND
EEG CHANNELS
MUTANEN, Tuomas P.,
METSOMAA, Johanna,
KUKKONEN, Matleena,
KEITAANNIEMI, Mariia,
ILMONIEMI, Risto J.

P1-014

SSS-BASED MOVEMENT
COMPENSATION AND
VIRTUAL HEAD-POSITION
RELOCATION IMPROVE
SENSOR-LEVEL ICA
TAYLOR, Jason, HENSON,
Richard

P1-015

REMOVING POWER LINE
ARTIFACT WITH NO EXTERNAL
CUE
HARPAZ, Yuval,
GOLDSTEIN, Abraham

P1-016

RISE ABOVE THE NOISE:
THE CHALLENGE OF
COMBINING TDCS & MEG
HANLEY, Claire, SINGH,
Krish, MCGONIGLE, David

P1-017

REMOVAL OF LARGE
INTERFERENCES IN MEG
SOURCE IMAGING BY POOR
MAN'S TSSS
SEKIHARA, Kensuke,
NAGARAJAN, Srikantan

P1-018

REGULARIZED HEAD
POSITION TRANSFORMATION
FOR MEG
HELLE, Liisa, NENONEN,
Jukka, TAULU, Samu

P1-019

BEAMFORMER ANALYSIS
IS AUGMENTED WITH
INDEPENDENT COMPONENT
ANALYSIS SOURCE
SUBSPACE REGULARIZATION
CASSEL, Daniel B.,
LALANCETTE, Marc,
URBAIN, Charline M.,
FATIMA, Zainab, QURAAAN,
Maher A.

Auditory Processing

P1-020

COMPARISON OF EEG
AND MEG COHERENCE
FUNCTIONS BETWEEN A
BRAIN SIGNAL AND A SOUND
ENVELOPE IN A SELECTIVE
LISTENING STUDY
HIGUCHI, Masanori,
SUZUKA, Yuko, OYAMA,
Daisuke, UEHARA, Gen

P1-021

MEASUREMENTS OF
AUDITORY EVOKED EEG AND
MEG BY BONE-CONDUCTED
ULTRASOUND IN THE
PROFOUNDLY HEARING-
IMPAIRED
NAKAGAWA, Seiji

P1-022

LEFT AUDITORY SUSTAINED
FIELDS REPRESENTING
INDIVIDUAL TIME PERCEPTION
YOKOSAWA, Koichi,
HAN, Ruokang, KADOYA,
Tomoka, MIYAZAKI, Akane,
TAKAHASHI, Taiki

P1-023

AUDIOVISUAL SPATIAL
INTEGRATION DURING LONG-
TERM ADAPTATION TO LEFT-
RIGHT REVERSED AUDITION
AOYAMA, Atsushi, SHIGETA,
Kazuhiro, KURIKI, Shinya

P1-024

CHANGES IN AUTOMATICITY
OF JAPANESE PHONETIC
CONTRAST USING
THE MISMATCH FIELD
COMPONENT
HISAGI, Miwako, PANTAZIS,
Dimitrios, MIYAGAWA,
Shigeru, SHAFER,
Valerie, KOTEK, Hadas,
SUGAWARA, Ayaka

P1-025

OSCILLATORY CORRELATES
OF SENSORY ATTENUATION
CAO, Liyu, THUT, Gregor,
GROSS, Joachim

P1-026

AUDITORY NEURAL
ACTIVITIES ELICITED BY
BINAURAL STIMULI
KURUMAYA, Haruka

P1-027

NEURAL DYNAMICS
OF SENSORY-MOTOR
SYNCHRONIZATION
TAL, Idan, ABELES, Moshe

P1-028

REAL-TIME SINGLE-TRIAL
SOURCE LOCALIZATION
USING RAP-MUSIC AND
REGION OF INTEREST
CLUSTERING
DINH, Christoph,
STROHMEIER, Daniel,
ESCH, Lorenz, GÜLLMAR,
Daniel, BAUMGARTEN,
Daniel, HÄMÄLÄINEN, Matti
S., HAUEISEN, Jens

P1-029

TIME PRECISION OF
CORTICO-CORTICAL
INTERACTIONS IN MUSICAL
METER FOLLOWING TASK
ABELES, Moshe, TAL, Idan

P1-030

MEG TEST-RETEST
RELIABILITY OF SENSORY
OSCILLATIONS
TAN, Heng-Ru May, GROSS,
Joachim, UHLHAAS, Peter J.

P1-031

MEG ANALYSIS OF AUDITORY
OBJECT PERCEPTION
SHAPIRA LOTS, Inbal,
ABELES, Moshe

Auditory Processing

continued

P1-032

MODULATION OF AUDITORY EVOKED RESPONSES BY EMOTIONAL IMAGES
TANAKA, Keita

P1-033

WAVE PACKET ANALYSIS: A NOVEL METHOD FOR TRACKING STIMULUS INDUCED WAVES IN ELECTROPHYSIOLOGICAL DATA
PRICE, Darren, BROOKES, Matthew, LIDDLE, Elizabeth, LIDDLE, Peter, PALANIYAPPAN, Lena

P1-034

BIMUSICAL BRAINS REVEALED BY MAGNETOENCEPHALOGRAPHY STUDIES
MATSUNAGA, Rie, TAKESHITA, Yuya, SUGINO, Yuta, YOKOSAWA, Koichi, ABE, Jun-ichi

P1-035

ASSRS IN MEG TO MUSICAL CHORDS MODULATED IN AMPLITUDE
SEKI, Shogo, NEMOTO, Iku

P1-036

CONNECTIVITY BETWEEN THE HESCHL'S GYRUS AND THE INFERIOR FRONTAL GYRUS MEDIATE THE PROCESSING OF MUSICAL FEATURES IN MOZART VARIATION KV265: A MAGNETOENCEPHALOGRAPHY STUDY
KIM, Chan Hee, KIM, June Sic, CHUNG, Chun Kee

P1-037

IMPAIRED PRE-ATTENTIVE AUDITORY PROCESSING IN FIBROMYALGIA: A MISMATCH NEGATIVITY STUDY
CHOI, Woojin, LIM, Manyoel, KIM, June Sic, KIM, Dajung, CHUNG, Chun Kee

P1-038

INVESTIGATION OF THE AUDITORY M100 BRAIN RESPONSE FOR LOW FREQUENCY SOUND STIMULATION
BAUER, Martin, ROBERT, Kühler, HENSEL, Johannes, KLING, Christoph, TRAHMS, Lutz, KOCH, Christian, SANDER, Tilmann

P1-039

AUDITORY ENVELOPE FOLLOWING RESPONSES IN THE MATURE AND DEVELOPING BRAIN
TANG, Huizhen, BROCK, Jon, CRAIN, Stephen, JOHNSON, Blake

P1-040

MELODIES IN THE BRAIN
GLOBERSON, Eitan, TAL, Idan, GRANOT, Roni, HARPAZ, Yuval, GOLDSTEIN, Abraham

P1-041

HUMAN CORTICAL RESPONSES TO SLOW AND FAST BINAURAL BEATS REVEAL MULTIPLE MECHANISMS OF BINAURAL HEARING
ROSS, Bernhard, MIYAZAKI, Takahiro, THOMPSON, Jessica, JAMALI, Shahab, FUJIOKA, Takako

P1-042

ALPHA SUPPRESSION IN CI PATIENTS WITH SSD REFLECT POST-IMPLANTATION INCREASE IN HEALTHY EAR COMPREHENSION OF DEGRADED SPEECH
WONG, Daniel, OBLESER, Jonas, LAI, Waikong, PETER, Nicole, DILLIER, Norbert, PROBST, Rudolf, KLEINJUNG, Tobias, DALAL, Sarang

P1-043

CORTICAL DYNAMICS ELICITED BY ILLUSORY AND NON-ILLUSORY AUDITORY STIMULI
PADULO, Caterina, BRANCUCCI, Alfredo, FRANCHIOTTI, Raffaella, TOMMASI, Luca, DELLA PENNA, Stefania

P1-044

ABNORMAL BRAIN SYNCHRONY IN CHILDREN WITH DOWN SYNDROME
LIU, Careesa C., GHOSH HAJRA, Sujoy, ROBERTS, Larry E., BOSNYAK, Daniel J., D'ARCY, Ryan C.N., CHEUNG, Teresa

Biosusceptometry & Nanoparticles

P1-046

HOW TO ADAPT MAGNETORELAXOMETRY ACTIVATION SETUPS FOR QUANTITATIVE MAGNETIC NANOPARTICLE IMAGING UNDER REALISTIC NOISE CONDITIONS
COENE, Annelies, LIEBL, Maik, WIEKHORST, Frank, CREVECOEUR, Guillaume, STEINHOFF, Uwe, DUPRÉ, Luc, HAUEISEN, Jens

P1-047

MAGNETIC PARTICLE SPECTROSCOPY TO QUANTIFY THE MAGNETIC NANOPARTICLE DISTRIBUTION IN BIOLOGICAL TISSUE
WIEKHORST, Frank, FARR, Tracy, HARMS, Christoph, TRAHMS, Lutz

P1-048

DIPOLAR INTERACTIONS BETWEEN MAGNETIC NANOPARTICLES IN MAGNETORELAXOMETRY
LELIAERT, Jonathan, COENE, Annelies, CREVECOEUR, Guillaume, DUPRÉ, Luc, VAN WAEYENBERGE, Bartel

P1-049

DEVELOPMENT OF A RABBIT SIZED PHANTOM FOR VALIDATION OF QUANTITATIVE IMAGING OF MAGNETIC NANOPARTICLE DISTRIBUTIONS
LIEBL, Maik, STEINHOFF, Uwe, WIEKHORST, Frank, BAUMGARTEN, Daniel, GUTKELCH, Dirk, TRAHMS, Lutz, HAUEISEN, Jens

P1-050

NUMERICAL ANALYSIS OF THE INFLUENCE OF MAGNETIC PROPERTIES ON THE THERMAL DISTRIBUTION DURING MAGNETIC NANOPARTICLE HYPERTHERMIA
SOETAERT, Frederik, CREVECOEUR, Guillaume, DUPRÉ, Luc

P1-051

MAGNETIC CHARACTERIZATION OF NANOPARTICLES FOR SUSCEPTIBILITY BASED IMAGING
NADAR, Priyanka, FICKO, Bradley, DIAMOND, Solomon

P1-052

DEVELOPMENT OF HIGH SENSITIVE AC BIOSUSCEPTOMETER FOR MAGNETIC NANOPARTICLE IMAGING
PAIXAO, Fabiano C., BAFFA, Oswaldo, MIRANDA, Jose Ricardo A.

P1-053

TWO-DIMENSIONAL NMR SPECTROSCOPY OF ¹³C METHANOL AT 5 μT
SHIM, Jeong Hyun, LEE, Seong-Joo, HWANG, Seong-min, YU, Kwon-Kyu, KIM, Kiwoong

Clinical/Translational Studies

P1-054

ABNORMAL NEURAL ACTIVATIONS DURING A MENTAL FLEXIBILITY TASK IN SOLDIERS WITH POST-TRAUMATIC STRESS DISORDERS (PTSD)
PANG, Elizabeth W., SEDGE, Paul, GRODECKI, Richard, MACDONALD, Matt J., ROBERTSON, Amanda, JETLY, Rakesh, SHEK, Pang N., TAYLOR, Margot J.

P1-055

OPTIMIZING FMRI AND MEG FOR PRESURGICAL MAPPING
STEVENS, Tynan, CLARKE, David, STROINK, Gerhard, BARDOUILLE, Tim, D'ARCY, Ryan, BEYEA, Steven

P1-056

LONG-TERM CYCLIC MENSTRUAL PAIN CHANGES EMOTIONAL PROSODY PROCESSING IN PRIMARY DYSMENORRHEA FEMALES
LOW, Intan, LIU, Yu-Hsiang, TU, Cheng-Hao, CHAO, Hsiang-Tai, HSIEH, Jen-Chuen, CHEN, Li-Fen

P1-057

INCREASED ALPHA-BAND PHASE SYNCHRONISATION IN PTSD DURING WORKING MEMORY AND DELAYED RECOGNITION
DUNKLEY, Benjamin, DOESBURG, Sam, SEDGE, Paul, GRODECKI, Richard, JETLY, Rakesh, SHEK, Pang, PANG, Elizabeth, TAYLOR, Margot

P1-058

LANGUAGE LATERALIZATION IN PRE-SURGICAL MAPPING USING VOLUME-BASED MNE APPLIED TO MEG DATA
LAING, Erika, NIRANJAN, Ajay, RICHARDSON, R Mark

continued

P1-059

HIGH FREQUENCY OSCILLATORY STATE IN SOMATOSENSORY EVOKED MAGNETIC RESPONSES MAY PREDICT RESIDUAL BRAIN FUNCTION IN PATIENTS WITH MINIMALLY CONSCIOUS STATE
KANNO, Akitake, NAKASATO, Nobukazu, KAKISAKA, Yosuke, NAGAMINE, Yoshihide, KAWASHIMA, Ryuta

P1-060

MRC PARTNERSHIP GRANT: BUILDING CAPACITY IN UK CLINICAL MEG RESEARCH
ROUTLEY, Bethany, HALL, Michael, BERESFORD, Rebecca, PRINSLOO, Kevin, HUNT, Benjamin, HEIDEMAN, Simone, MEYER, Sofie, PAPANIKOLAOU, Ioannis, HAMANDI, Khalid, FURLONG, Paul, HOLLIDAY, Ian, KESSLER, Klaus, HENSON, Richard, SHYTROV, Yury, GROSS, Joachim, UHLHAAS, Peter, MORRIS, Peter, BROOKES, Matthew, NOBRE, Kia, WOOLRICH, Mark, BARNES, Gareth, LITVAK, Vladimir, GREEN, Gary, SINGH, Krish

P1-061

INTERSESSION RELIABILITY FOR SOMATOSENSORY CORTEX LOCALIZATION: IMPLICATIONS FOR PRE-SURGICAL SOLOMON, Jack, BOE, Shaun, BARDOUILLE, Timothy

P1-062

AN EXPANDED RANGE OF APPLICATIONS FOR MEG THROUGH PERSONALIZED MEDICINE
IOANNIDES, Andreas, POGHOSYAN, Vahe, LIU, Lichan

P1-063

EFFECTS OF CONTRALATERAL NOISE ON THE 20-HZ AUDITORY STEADY STATE RESPONSE-MAGNETO-ENCEPHALOGRAPHIC STUDY
USUBUCHI, Hajime, KAWASE, Tetsuaki, KANNO, Akitake, YAHATA, Izumi, TAKANASHI, Yoshitaka, NAKASATO, Nobukazu, KAWASHIMA, Ryuta, KATORI, Yukio

P1-064 **HOT TOPIC**

BRAIN CONNECTIVITY MEASURES: APPLICATION TO EPILEPSY NETWORKS
BOWYER, Susan, ASSAD, Basal, MASON, Karen, MORAN, John, BARKLEY, Gregory, TEPLY, Norman, ZILLGITT, Andrew

P1-065

EVALUATING DEPRESSION SEVERITY BASED ON POSTERIOR ALPHA OSCILLATION
JIANG, Haiteng, POPOV, Tzvetan, Bi, Kun, YAO, Zhijian, LU, Qing, JENSEN, Ole

P1-066

DICOM COMPLIANT MEG LOCALIZATION INFORMATION INTEGRATION IN MRI STUDIES FOR ACCURATE IMPLANTABLE DEVICE SURGICAL PLANNING AND NAVIGATION
DURAND, Pierre, AUBOIROUX, Vincent, PIETRAS, Johan, BERGER, François, LABYT, Etienne

P1-067

FRONTO-PARIETAL ALPHA ACTIVITY REFLECTING VISUO-SPATIAL ATTENTION SWITCHING IS MODULATED BY DOPAMINE IN PARKINSON'S DISEASE.
VAN DIJK, Hanneke, WITTENBERG, Marc, VAN TOOREN-HOOGENDOORN, Nienke, FERREA, Stefano, SUDMEYER, Martin, SCHNITZLER, Alfons, LANGE, Joachim

P1-068

DETECTING BRAIN CHANGES OF INDIVIDUAL TREATMENT EFFECTS DURING LANGUAGE THERAPY: A DOWN SYNDROME CASE STUDY
CHEUNG, Teresa P L, GHOSH HAJRA, Sujoy, FAWCETT, Susan, PETERSEN, Jill, D'ARCY, Ryan C N

P1-069

MEG-GUIDED PORTABLE MEDICAL DEVICE DEVELOPMENT: A PROOF-OF-CONCEPT
GHOSH HAJRA, Sujoy, LIU, Careesa C., D'ARCY, Ryan C.N., CHEUNG, Teresa P.L.

P1-070

OSCILLATORY CORTICAL DYNAMICS OF IMPLICIT LEARNING IN PATIENTS WITH SCHIZOPHRENIA
HINKLEY, Leighton, VINOGRADOV, Sophia, FISHER, Melissa, BIAGIANTI, Bruno, MIZUIRI, Danielle, NAGARAJAN, Srikantan

Development & Ageing Studies

P1-045

INVESTIGATION OF AUDITORY OFF-RESPONSE TO PURE TONE STIMULATION BY USING MEG
LIAO, Shu-Hsien, CHEN, Kuen-Lin, YANG, Hong-Chang, HORNG, Heng-Er

P1-071

EEG EVIDENCE OF STATISTICAL LEARNING IN PREVERBAL INFANTS
KABDEBON, Claire, BUIATTI, Marco, PEÑA, Marcela, DEHAENE-LAMBERTZ, Ghislaine

P1-072

FUNCTIONAL CONNECTIVITY AND ENTROPY MEASURES IN DEVELOPMENT
HALL, Emma, SMITH, Helen, MORRIS, Peter, LIDDLE, Elizabeth, GROOM, Maddie, LIDDLE, Peter, BROOKES, Matthew

P1-073

MEG CLASSIFICATION OF DEMENTIA BASED ON INCIDENTAL MEMORY TASKS.
BERESFORD, Rebecca, COOPER, Elisa, GREVE, Andrea, HENSON, Richard

P1-074

THE NEURAL CORRELATES OF SPATIOTEMPORAL ORIENTING IN AGEING
HEIDEMAN, Simone G., ROHENKOHL, Gustavo, GOULD, Ian C., PALMER, Clare, NOBRE, Anna C.

P1-075

ATYPICAL WORKING MEMORY BRAIN PROCESSES IN HIGH-FUNCTIONING CHILDREN WITH AUTISM SPECTRUM DISORDERS
URBAIN, Charline, CASSEL, Daniel, PANG, Elizabeth W, TAYLOR, Margot J

P1-076

ATYPICAL NEURAL ACTIVATION DURING AFFECTIVE PROCESSING IN CHILDREN WITH AUTISM SPECTRUM DISORDERS
LEUNG, Rachel, PANG, Elizabeth, CASSEL, Daniel, BRIAN, Jessica, SMITH, Mary Lou, TAYLOR, Margot

P1-077

REDUCED NETWORK CONNECTIVITY DYNAMICS IN PRETERM CHILDREN DURING VISUAL SHORT-TERM MEMORY PROCESSING
MOISEEV, Alexander, DOESBURG, Sam, HERDMAN, Anthony, RIBARY, Urs, GRUNAU, Ruth

P1-078

DISRUPTED BETA-BAND OSCILLATORY RESTING-STATE ACTIVITY IN ALZHEIMER'S DISEASE AND HEALTHY AGEING IN PARIETOFRONTAL AND SENSORIMOTOR NETWORKS
KOELEWIJN, Loes, BOMPAS, Aline, TALES, Andrea, MUTHUKUMARASWAMY, Suresh, BAYER, Antony, SINGH, Krish

P1-079

FACE PROCESSING IN PRE-SCHOOL AGED CHILDREN: A MEG NEUROIMAGING STUDY
HE, Wei, BROCK, Jon, JOHNSON, Blake

P1-080

LATENCY OF PRIMARY SENSORY RESPONSES TO MULTISENSORY STIMULI IN ADOLESCENTS WITH AND WITHOUT FETAL ALCOHOL SPECTRUM DISORDERS (FASD): EFFECTS OF SPATIAL CONGRUENCE
COFFMAN, Brian, ROMERO, Lucinda, KODITUWAKKU, Elizabeth, KODITUWAKKU, Piyadasa, STEPHEN, Julia

P1-081

INTRINSIC ALPHA-BAND FUNCTIONAL CONNECTIVITY IN THE ATTENTIONAL DORSAL VISUAL NETWORK IN CHILDREN
REWIN CIESIELSKI, Kristina, BOUCHARD, Chris, SOLIS, Isabel, STEPHEN, Julia, AHLFORS, Seppo, HÄMÄLÄINEN, Matti, SEAMAN, Brandi, MEYER, Samuel, KHAN, Sheraz

continued

P1-082
DEVELOPMENT OF SUPERIOR
TEMPORAL GYRUS 40 HZ
AUDITORY STEADY-STATE
RESPONSES IN TYPICALLY
DEVELOPING CHILDREN AND
CHILDREN WITH AUTISM
SPECTRUM DISORDER
EDGAR, J. Christopher, FISK,
Charlie, LIU, Song, PANDEY,
Juhi, SCHULTZ, Robert,
ROBERTS, Timothy

P1-083
OSCILLATIONS, NETWORKS
AND THEIR DEVELOPMENT:
MEG AMPLITUDE
CORRELATIONS IN
RESTING-STATE NETWORKS
STRENGTHEN WITH AGE
SCHÄFER, Carmen,
MORGAN, Benjamin, YE,
Annette, TAYLOR, Margot,
DOESBURG, Sam

P1-084
PERFORMANCE EVALUATION
OF A NOVEL PEDIATRIC MEG
SYSTEM
LUESSI, Martin,
NUMMENMAA, Aapo, LEW,
Seok, OKADA, Yoshio,
HÄMÄLÄINEN, Matti

P1-085
MU RHYTHM SUPPRESSION
IN TERM AND PRETERM
INFANTS
STEPHEN, Julia, ZHANG,
Tongsheng, ROMERO,
Lucinda, MORALES,
Wendy, COFFMAN, Brian,
STEPHENS, Emily, SAVICK,
Renate, ANNETT, Robert

P1-086
NEUROMAGNETIC
OSCILLATIONS IN WORKING
MEMORY PROCESSES
WIANDA, Elvis, CAPLAN,
Jeremy, ROSS, Bernhard

P1-087
FUNCTIONAL SIGNIFICANCE
OF BETA- AND GAMMA-
BAND NEUROMAGNETIC
OSCILLATION AND PLASTIC
REORGANIZATION AFTER
MUSIC TRAINING IN AGING
FUJIOKA, Takako, JAMALI,
Shahab, ROSS, Bernhard

P1-088
BRIDGING THE GAP IN THE
NEUROIMAGING OF EARLY
MOTOR DEVELOPMENT:
EVIDENCE FROM MEG
STUDIES IN PRESCHOOL AGE
CHILDREN
CHEYNE, Douglas, JOBST,
Cecilia, TESAN, Graciela,
CRAIN, Stephen, JOHNSON,
Blake

Machine Learning, Decoding & BCI

P1-089
GROUP ANALYSES OF
MULTIVARIATE DECODING
METHODS IN MEG
AYOUB, Kareem,
VIDAURRE, Diego, BUCH,
Ethan, COHEN, Leonardo,
WOOLRICH, Mark

P1-090
NEUROFEEDBACK FOR HAND
THERAPY AFTER PARALYSIS
USING REAL-TIME MAGNETO-
ENCEPHALOGRAPHY
FOLDES, Stephen,
RANDAZZO, Michael,
WEBER, Douglas,
COLLINGER, Jennifer

P1-091
ROLES OF SENSORY
INFORMATION IN
CONTINUOUS DECODING
OF ARM MOVEMENTS FROM
MEG CORTICAL SOURCES
LEE, Hyeonrae, KIM, June
Sic, CHUNG, Chun Kee

P1-092
ABSTRACT AUDITORY
CATEGORICAL
REPRESENTATIONS AND
DOMAIN-GENERAL DECISION
MAKING: A MULTIVARIATE
MEG STUDY
FUSCÀ, Marco, LEVINE,
Seth, SCHWARZBACH, Jens

P1-093
EVALUATING MACHINE
LEARNING TECHNIQUES FOR
OPTIMIZING MOTOR IMAGERY
NEUROFEEDBACK
STORY, Ross, BARDOUILLE,
Timothy, BOE, Shaun

P1-094
HIGH-PERFORMANCE
BRAIN MACHINE INTERFACE
COMBINING IMAGE
INFORMATION
YEOM, Hong Gi, KIM, June
Sic, CHUNG, Chun Kee

P1-095
MEG DECODING ACROSS
SUBJECTS
OLIVETTI, Emanuele, KIA,
Seyed Mostafa, AVESANI,
Paolo

P1-096
INFORMATIVE TIMING
DETECTION IN A TRIAL-
BY-TRIAL MEG DECODING
FRAMEWORK
PELED, Noam

P1-097
DECODING MOTOR
INTENTIONS USING PHASE,
AMPLITUDE AND PHASE-
AMPLITUDE COUPLING
COMBRISSE, Etienne,
SOTO, Juan LP, KAHANE,
Philippe, LACHAUX, Jean-
Philippe, GUILLOT, Aymeric,
JERBI, Karim

P1-098
AUTOMATED MODEL
SELECTION FOR SPATIAL
WHITENING AND
COVARIANCE ESTIMATION OF
M/EEG SIGNALS
ENGEMANN, Denis A.,
GRAMFORT, Alexandre

Poster Session 2:

Tuesday, August 26th,
12:00pm – 2:00 pm

Attention, Consciousness & Executive Function

P2-001 **HOT TOPIC**
MOTOR ORIGIN OF
TEMPORAL PREDICTIONS IN
AUDITORY PERCEPTION
MORILLON, Benjamin,
WYART, Valentin,
SCHROEDER, Charles E.,
BAILLET, Sylvain

P2-002
NEUROMAGNETIC AUDITORY
STEADY STATE RESPONSE TO
TRIADS: MODULATION AS A
FUNCTION OF FREQUENCY
RATIO
OTSUKA, Asuka, YUMOTO,
Masato, KURIKI, Shinya,
NAKAGAWA, Seiji

P2-003
THE EFFECTS OF PREDICTION
AND ATTENTION ON GAMMA
AND ALPHA OSCILLATIONS IN
VISUAL CORTEX
BROWN, Harriet

P2-004
INHIBITING IN THE FACE OF A
SMILE OR A FROWN
ROBERTSON, Amanda,
PANG, Elizabeth, TAYLOR,
Margot

P2-005
AN MEG STUDY OF THE
COCKTAIL-PARTY EFFECT
USING THE COHERENCE
FUNCTION BETWEEN A
BRAIN SIGNAL AND A SOUND
ENVELOPE
SUZUKA, Yuko, HIGUCHI,
Masanori, OYAMA, Daisuke,
UEHARA, Gen

P2-006
GENERATION OF THE
MISMATCH NEGATIVITY
REQUIRES PERCEPTUAL
AWARENESS OF THE
STANDARD STREAM
DYKSTRA, Andrew,
GUTSCHALK, Alexander

P2-007
THE INDIVIDUAL ALPHA
FREQUENCY DECREASES BY
DOPAMINE IN PATIENTS WITH
PARKINSON'S DISEASE.
VAN DIJK, Hanneke, VAN
TOOREN-HOOGENBOOM,
Nienke, FERREA, Stefano,
SUDMEYER, Martin,
SCHNITZLER, Alfons

P2-008
A STUDY OF THE RELAXING
EFFECT BY ANALYZING THE
CONTINGENT MAGNETIC
VARIATIONS IN MEG VIA THE
STIMULUS OF AFFECTIVE
PICTURES
HORNG, H. E., LIAO, S.H.,
CHIEH, J.J., HUANG, Y.T.,
YANG, H.C.

P2-009
EXPOSURE DURATION
DIFFERENTIALLY AFFECTS
PROCESSING OF EMOTIONAL
AND NEUTRAL FACES
KOUPTSOVA, Jane, LEUNG,
Rachel, TAYLOR, Margot

P2-010
COMPLEX CONSCIOUSNESS
THROUGH MUSICIANS' EARS
CARPENTIER, Sarah,
FUJIOKA, Takako,
BERNHARD, Ross,
MCINTOSH, Randy

P2-011
THETA OSCILLATIONS DURING
COGNITIVE CONTROL: A
COMBINED M/EEG STUDY
HINKLEY, Leighton, COHEN,
Mike, GULBINAITE, Rasa,
MIZUIRI, Danielle, HONMA,
Susanne, NAGARAJAN,
Srikantan

P2-012
CORTICAL OSCILLATIONS
IN INHIBITORY CONTROL:
EVIDENCE FOR A
DIFFERENTIAL ROLE OF
GAMMA AND THETA BAND
ACTIVITY IN PERFORMANCE
MONITORING
ISABELLA, Silvia, CHEYNE,
Douglas

Attention, Consciousness & Executive Function

continued

P2-013

AMPLITUDE DIFFERENCES PRESENT AT ANTERIOR PREFRONTAL CORTEX DURING RESPONSES TO A VISUOMOTOR TASK IN ADOLESCENTS WITH FETAL ALCOHOL SPECTRUM DISORDER (FASD): A MEG STUDY.

GARCIA, Christopher, KODITUWAKKU, Piyadasa, TESCHE, Claudia

P2-014

NEURAL ENTRAINMENT TO THE BEAT: THE "MISSING PULSE" PHENOMENON ZION GOLUMBIC, Elana, VALESICO, Marc, SCHROEDER, Charles, POEPPPEL, David, LARGE, Edward, TAL, Idan

P2-015

OSCILLATORY DYNAMICS OF RESPONSE INHIBITION: IT IS HARD TO HOLD YOUR HORSES WHEN DRUNK MARINKOVIC, Ksenija, KOVACEVIC, Sanja, ROSEN, Burke

P2-016

THE SPATIO-TEMPORAL ARCHITECTURE OF THEORY OF MIND PROCESSING IN A FALSE BELIEF TASK AUCOIN-POWER, Michelle, SMITH, Mary Lou, PANG, Elizabeth W., LALANCETTE, Marc, MOSSAD, Sarah, URBAIN, Charline M., TAYLOR, Margot J.

P2-017

NEUROMAGNETIC IMAGING OF THE THALAMOCORTICAL BINDING NETWORK ROSS, Bernhard

P2-018

EFFICIENT INTEGRATION OF SOMATOSENSORY CORTEX IN PRE-STIMULUS PERIODS PREDISPOSES CONSCIOUS TACTILE PERCEPTION FREY, Julia Natascha, RUHNAU, Philipp, WEISZ, Nathan

P2-019

DELAYED ACTIVATION OF MENTAL FLEXIBILITY-RELATED BRAIN REGIONS IN MILD TRAUMATIC BRAIN INJURY PATIENTS AS DETECTED WITH MAGNETOENCEPHALOGRAPHY MACDONALD, Matt J., DA COSTA, Leodante, BETHUNE, Allison, ROBERTSON, Amanda, SHEK, Pang N., TAYLOR, Margot J., PANG, Elizabeth W.

P2-020

MODULATIONS OF POWER AND CONNECTIVITY PATTERNS IN THE BETA BAND PREDICT CONSCIOUS PERCEPTION OF UPCOMING NEAR-THRESHOLD VISUAL STIMULI RUHNAU, Philipp, LESKE, Sabine, WEISZ, Nathan

Instrumentation

P2-021

IMPROVED FINE-CALIBRATION OF TRIPLE-SENSOR MEG ARRAYS NENONEN, Jukka

P2-022

AN OPTICAL POLARIMETER FOR DC AND AC SUSCEPTIBILITY MEASUREMENTS OF SUPERPARAMAGNETIC NANOPARTICLES LEBEDEV, Victor, AEBISCHER, Philipp, WEIS, Antoine

P2-023

LOW-COST, HIGH PERFORMANCE INSTRUMENTATION FOR BIOMAGNETISM SHAH, Vishal, WAKAI, Ronald

P2-024

CALIBRATING THE NEW MEG SYSTEM IN NAPLES VIVALDI, Valentina, SORRENTINO, Alberto, SOMMARIVA, Sara, PIANA, Michele, ROMBETTO, Sara, RUSSO, Maurizio

P2-025

ATOMIC MAGNETOMETERS FOR MAGNETOENCEPHALOGRAPHY: DESIGN, CONSTRUCTION, AND VALIDATION OF A 36-CHANNEL SYSTEM COLOMBO, Anthony, SCHWINDT, Peter, JAU, Yuan-Yu, YOUNG, Amber, MCKAY, Jim, WEISEND, Michael

P2-026

TOWARDS MULTICHANNEL HIGH-TC MEG SYSTEMS FALEY, M. I., CHOCHOLACS, H., DAMMERS, J., EICH, E., BOERS, F., SHAH, N. J., GERASIMOV, I. A., SOBOLEV, A. S., SLOBODCHIKOV, V. Yu., MASLENNIKOV, V. V., KOSHELETS, V. P., DUNIN-BORKOWSKI, R. E.

P2-027

BENEFITS OF ON-SCALP MEG LUESSI, Martin, NUMMENMAA, Aapo, LEW, Seok, OKADA, Yoshio, HÄMÄLÄINEN, Matti

P2-028

MEG DETECTION OF SOMATOSENSORY EVOKED RESPONSES AT 1 KHZ USING AN ULTRA-LOW-NOISE SQUID SYSTEM KÖRBER, Rainer, FEDELE, Tommaso, SCHEER, Hans-Jürgen, CURIO, Gabriel, BURGHOF, Martin

P2-029

TOWARD AN ELIMINATION OF PRE-POLARIZATION ELECTROMAGNET FOR SQUID-BASED NMR WITH DYNAMIC NUCLEAR POLARIZATION LEE, Seong-Joo, KIM, Kiwoong, SHIM, Jeong-Hyun, YU, Kwon Kyu, HWANG, Seong-min

P2-030

ADVANCED HELIUM LIQUEFACTION AND RECYCLING FOR MEG SYSTEMS LI, Shi, RAYNER, Grant, TERRY, Jeremy, MARTINEZ, Monica, ALONZO, Jesse, REINEMAN, Richard, RILLO, Conrado

P2-031

OPTICAL PUMPED MAGNETOMETERS FOR MCG OR MFI APPLICATION NOWAK, Hannes, LEMBKE, Gertrud, WITTE, Otto W., MENHORN, Benjamin, PASQUARELLI, Alberto, ERNE, Sergio N.

P2-032

DETECTING MCG SIGNALS FROM A PHANTOM WITH A 4HE MAGNETOMETER CORSI, Marie-Constance, LABYT, Etienne, FOURCAULT, William, GOBBO, Cyril, BERTRAND, François, ALCOUFFE, François, CAUFFET, Gilles, LE PRADO, Matthieu, MORALES, Sophie

P2-033

CARDIAC OUTPUT ASSESSMENTS AT SKIN LEVEL USING BIOMAGNETIC BLOOD PRESSURE RECORDS CORDOVA-FRAGA, Teodoro, GOMEZ-AGUILAR, José Francisco, VAZQUEZ-OLVERA, Sergio, CASTRO-LOPEZ, Jorge, HERNANDEZ-SOLORIO-MEZA, Sergio, GUZMAN-CABRERA, Rafael, BERNAL-ALVARADO, José de Jesús, VARGAS-LUNA, Francisco Miguel

P2-034

HELIUM-FREE MEG RECORDINGS: SOURCE LOCALIZATION OF BRAIN ACTIVITY DAMMERS, Jürgen, CHOCHOLACS, Harald, EICH, Eberhard, BOERS, Frank, BREUER, Lukas, FALEY, Michael, DUNIN-BORKOWSKI, Rafal, SHAH, Nadim Joni

P2-035

COMPUTING RESOLUTION FOR NEUROMAGNETIC IMAGING SYSTEMS SEKIHARA, Kensuke, HIYAMA, Ei

JAMES ZIMMERMAN PRIZE WINNER

P2-036 **HOT TOPIC**

MIXED SENSORS: SPIN ELECTRONICS-BASED MAGNETOMETERS FOR BIOMAGNETISM PANNETIER-LECOEUR, Myriam

P2-037

LOW COST 3D MOTION TRACKING IN MEG TARRIN, Nicolas, POESCHL, Christiane, COKGUNGOR, Serpil, ROHU, Victor, LABYT, Etienne

P2-038

MAGNETIC RESONANCE IMAGING OF MOUSE HEAD IN ULTRA-LOW MAGNETIC FIELD OYAMA, Daisuke, TSUYUGUCHI, Naohiro, ABE, Junya, MIYAMOTO, Masakazu, ADACHI, Yoshiaki, HIGUCHI, Masanori, KAWAI, Jun, UEHARA, Gen

Instrumentation

continued

P2-039

LOW TEMPERATURE SQUID SENSOR DEVELOPMENT – FROM SIS TO SNS
ZHANG, Yanping,
YOKOYAMA, Kazuhiro,
SHINADA, Kei, SAKAI, Fumio

P2-040

INSTALLATION OF A HCS ON A MEG FOR CLINICAL USE
TAKEDA, Tsunehiro,
OKAMOTO, Masayoshi,
MIYAZAKI, Takashi, MORITA, Naoki, KATAGIRI, Keishi

P2-041

MEASURING DC IN THE HEAD IN A NEW WAY: USING THE PLANAR GRADIOMETERS IN A STANDARD ELEKTA MEG HELMET
KHAN, Sheraz, COHEN, David

P2-042

AUTOMATED MEASUREMENT OF THE ELECTRIC FIELD DISTRIBUTION INDUCED IN A SPHERICALLY SYMMETRIC CONDUCTOR BY TMS DEVICES
NIEMINEN, Jaakko O.,
KOPONEN, Lari M.,
ILMONIEMI, Risto J.

P2-043

MULTI-SENSOR TYPE ACTIVE MAGNETIC SHIELDING FOR UNIFORM AND LINEAR GRADIENT MAGNETIC FIELD COMPENSATION
KOBAYASHI, Koichiro,
CHIBA, Hiroki, YOSHIZAWA, Masahito, UCHIKAWA, Yoshinori

P2-044

MAPPING THE ELECTROMAGNETIC FIELD OF NEURONS AT CELLULAR SCALE USING ULTRA-SENSITIVE MAGNETOMETER
CARUSO, Laure, PAUL, Elodie, DEMONTI, Amala, FERMON, Claude, PANNETIER-LECOEUR, Myriam, OUANOUNOU, Gilles, MIKROULIS, Apostolos, BAL, Thierry

P2-045

PRACTICAL CONSIDERATIONS FOR ACCURATELY RECORDING VISUAL STIMULUS ONSET TIMES WITH A PHOTODIODE-BASED CIRCUIT
LALANCETTE, Marc,
KANESALINGAM, Thilakshan

P2-046

DIRECT DETECTION OF LONG-LIVED NEURONAL ACTIVITY BY MEANS OF ULTRA-LOW-FIELD NUCLEAR MAGNETIC RESONANCE (ULF NMR) USING A PHASE ENCODING TECHNIQUE
HÖFNER, Nora, KÖRBER, Rainer, HAUEISEN, Jens, BURGHOF, Martin

P2-047

RAPID, DRY MULTICHANNEL ELECTROENCEPHALOGRAPHY
FIEDLER, Patrique,
GRIEBEL, Stefan,
FONSECA, Carlos, VAZ, Filipe, ZENTNER, Lena, ZANOW, Frank, HAUEISEN, Jens

P2-048

INTEGRATED OPTICAL MAGNETOMETER USING F=3 REPUMPER FOR SENSITIVE BIOMAGNETIC MEASUREMENTS
SCHULTZE, Volkmar

P2-049

IMPROVEMENT OF SQUID MAGNETOSPINOGRAPHY SYSTEM TOWARD THE PRACTICAL USE IN HOSPITALS
ADACHI, Yoshiaki, HARUTA, Yasuhiro, UEHARA, Gen, KAWABATA, Shigenori, SEKIHARA, Kensuke

P2-050

MAGNETOENCEPHALOGRAPHY BENCHMARKING EXPERIMENTS: HIGH- VS. LOW-TC SQUIDS
XIE, Minshu,
SCHNEIDERMAN, Justin F., CHUKHARKIN, Maxim L., KALABOUKHOV, Alexei, LUNDQVIST, Daniel, WHITMARSH, Stephen, HÄMÄLÄINEN, Matti, JOUSMÄKI, Veikko, OOSTENVELD, Robert, WINKLER, Dag

P2-051

ASSESSING THE ADDED VALUE OF RECORDING MEG CLOSER TO THE CORTEX
IIVANAINEN, Joonas, STENROOS, Matti, PARKKONEN, Lauri

P2-052

ON THE IMPORTANCE OF DIFFUSION MAGNETIC RESONANCE INFORMATION AS A REGULARIZATION TERM FOR MEG/EEG INVERSE PROBLEM
BELAOUCHA, Brahim, PHILIPPE, Anne-Charlotte, CLERC, Maureen, PAPADOPOULOU, Théodore

Neurological Disorders

P2-053

QUANTITATIVE COMPARISON OF INTERICTAL AND ICTAL NEUROMAGNETIC ABNORMALITY IN CHILDREN ABSENCE EPILEPSY WITH MEG ACCUMULATED SOURCE IMAGING
TANG, Lu, XIANG, Jing

P2-054

CHARACTERIZATION OF COGNITIVE IMPAIRMENTS IN SURVIVORS OF SEVERE SEPSIS BY MEANS OF MEG
GÖTZ, Theresa, HUONKER, Ralph, SEIDEL, Gundula, HAMZEI, Farsin, WITTE, Otto W, BRUNKHORST, Frank, GÜNTHER, Albrecht

P2-055

EVIDENCE FOR AGE-RELATED EFFECTS IN AUDITORY ENTRAINMENT IN DYSLEXIA: AN MEG STUDY
LIZARAZU, Mikel, LALLIER, Marie, BOURGUIGNON, Mathieu, CARREIRAS, Manuel, MOLINARO, Nicola

P2-056

IMPAIRED GAMMA-BAND RESPONSES TO AUDITORY WORD STIMULI IN AUTISM SPECTRUM DISORDERS
AHTAM, Banu, PAPADELIS, Christos, NAYAK, Tapsya, DOSHI, Chiran, HACKL, Martin, GRANT, Ellen, OKADA, Yoshio

P2-057

CHANGES IN PREFRONTAL ACTIVATION IN EARLY ALZHEIMER'S DISEASE: A MAGNETOENCEPHALOGRAPHY (MEG) STUDY
SONG, Xiaowei, CLARKE, Maggie, LABLANC, Emily, BARDOUILLE, Timothy, FISK, John, DARVESH, Sultan, BEYEA, Steven, D'ARCY, Ryan, ROCKWOOD, Kenneth

P2-058

COMPARISON OF MEG SOURCE ESTIMATION TECHNIQUES TO INTRACRANIAL EEG AND LONG TERM SEIZURE OUTCOME
TENNEY, Jeffrey, FUJIWARA, Hisako, HORN, Paul, ROSE, Douglas

P2-059

SOURCE LOCALIZATION OF THE P300 EVENT-RELATED POTENTIAL AS A BIOMARKER FOR THE EFFICACY OF VAGUS NERVE STIMULATION IN PATIENTS WITH EPILEPSY
STALJANSSENS, Willeke, STROBBE, Gregor, DE TAEYE, Leen, VAN ROOST, Dirk, VONCK, Kristl, RAEDT, Robrecht, VAN HOLEN, Roel, VANDENBERGHE, Stefaan, VAN MIERLO, Pieter

P2-060

INVESTIGATION OF MOTOR-RELATED BRAIN ACTIVITIES IN PATIENT WITH WHITE MATTER DISEASE: A MEG STUDY
KIM, Bong Soo, HWANG, Su-Jeong, CHANG, Won Seok, KIM, Kiwoong, KWON, Hyuk Chan, LEE, Yong Ho, CHANG, Jin Woo

P2-061

MONITORING MOTOR-CORTEX PLASTICITY DURING STROKE RECOVERY USING PASSIVE MOVEMENTS
PARKKONEN, Eeva, LAAKSONEN, Kristina, PARKKONEN, Lauri, PIITULAINEN, Harri, FORSS, Nina

P2-062

DOPAMINERGIC MODULATION OF PATHOLOGICAL MOVEMENT-RELATED CORTICAL BETA RESPONSES IN PARKINSON'S DISEASE
HEINRICHS-GRAHAM, Elizabeth, SANTAMARIA, Pamela, GENDELMAN, Howard, WILSON, Tony

P2-063

DEEP BRAIN STIMULATION MODIFIES MEG SIGNALS OF PATIENTS WITH PARKINSON'S DISEASE
MÄKELÄ, Jyrki, AIRAKSINEN, Katja, TAULU, Samu, NURMINEN, Jussi, LUOMA, Jarkko, PEKKONEN, Eero

Neurological Disorders

continued

P2-064

CORTICAL OSCILLATORY CHANGES ASSOCIATED WITH HAND RECOVERY FOLLOWING CHILDHOOD STROKE
MASTER, Sabah, DOMI, Trish, JOBST, Cecilia, CHEYNE, Douglas, DEVEBER, Gabrielle

P2-065

A NOVEL METHOD FOR IMAGING TRANSIENT HFOS IN EPILEPSY MEG RECORDINGS
ROBINSON, Stephen

P2-066

CORTICO-THALAMIC OSCILLATORY CONNECTIVITY IN PATIENTS WITH TREMOR
NEUMANN, Wolf-Julian, OSWAL, Ashwini, JHA, Ashwani, FOLTYNIE, Thomas, PATRICIA, Limousin, ZRINZO, Ludvic, BROWN, Peter, LITVAK, Vladimir

P2-067

COMBINED EEG/MEG CAN OUTPERFORM SINGLE MODALITY EEG OR MEG SOURCE RECONSTRUCTION IN PRESURGICAL EPILEPSY DIAGNOSIS
AYDIN, Ümit, VORWERK, Johannes, DÜMPELMANN, Matthias, KÜPPER, Philipp, KUGEL, Harald, WELLMER, Jörg, KELLINGHAUS, Christoph, HAUEISEN, Jens, RAMPP, Stefan, STEFAN, Hermann, WOLTERS, Carsten

P2-068

RESILIENCE OF OSCILLATORY BRAIN NETWORKS TO INTERICTAL EPILEPTIFORM DISCHARGES IS ASSOCIATED WITH COGNITIVE OUTCOME IN CHILDREN WITH FOCAL EPILEPSY
IBRAHIM, George M., CASSEL, Daniel B., MORGAN, Benjamin R., SMITH, Mary Lou, OTSUBO, Hiroshi, OCHI, Ayako, RUTKA, James T., SNEAD III, Carter, DOESBURG, Sam

P2-069

MULTIMODAL NEUROIMAGING EVIDENCE OF ALTERATIONS IN CORTICAL STRUCTURE AND FUNCTION IN THE AGING HIV BRAIN
WILSON, Tony W, HEINRICHS-GRAHAM, Elizabeth, BECKER, Katherine M, ALOI, Joseph, ROBERTSON, Kevin R, SANDKOVSKY, Uriel, WHITE, Matthew L, O'NEILL, Jennifer, KNOTT, Nichole L, FOX, Howard S, SWINDELLS, Susan

P2-070

IDENTIFICATION OF INTERICTAL EPILEPTIFORM ACTIVITY WITH ICA AND AUTOMATIC COMPONENT IDENTIFICATION IN PATIENTS WITH NEGATIVE MEG RECORDINGS
BADIER, Jean-Michel, GAVARET, Martine, WOODMAN, Marmaduke, CHEN, Sophie, CHAUVEL, Patrick, BARTOLOMEI, Fabrice, BÉNAR, Christian, Georges

P2-071

INCREASED VARIABILITY IN RESTING-STATE SENSORIMOTOR NETWORK ACTIVITY IN PAEDIATRIC BENIGN ROLANDIC EPILEPSY
KOELEWIJN, Loes, HAMANDI, Khalid, BROOKES, Matt, BRINDLEY, Lisa, ROUTLEY, Bethany, MUTHUKUMARASWAMY, Suresh, SINGH, Krish

P2-072

COMPARISON OF THE ELECTRIC FIELDS INDUCED IN THE BRAIN BY TRANSCRANIAL MAGNETIC STIMULATION USING FIGURE-OF-EIGHT AND DEEP HACS COILS
LU, Mai, UENO, Shoogo

P2-073

ELEVATED LOW-FREQUENCY AMPLITUDE ENVELOPE CORRELATIONS DURING RESTING STATE IN MILD TRAUMATIC BRAIN INJURY
DUNKLEY, Benjamin, DA COSTA, Leo, DOESBURG, Sam, ROBERTSON, Amanda, PANG, Elizabeth, TAYLOR, Margot

P2-074

ABNORMAL RESTING STATE FUNCTIONAL BRAIN NETWORK IN FOCAL CORTICAL DYSPLASIA
JEONG, Wooreim, JIN, Seung-Hyun, KIM, Museong, KIM, June Sic, CHUNG, Chun Kee

P2-075

EFFECT OF HIPPOCAMPAL SCLEROSIS ON FUNCTIONAL CORTICAL HUBS IN THE RESTING STATE
JIN, Seung-Hyun, JEONG, Wooreim, CHUNG, Chun Kee

P2-076

WHAT GRAPH THEORY REALLY TELLS US ABOUT INTERICTAL MEG ACTIVITY OF FOCAL AND GENERALIZED EPILEPSY
NISO, Guiomar, CARRASCO, Sira, GUDIN, Maria, MAESTU, Fernando, DEL-POZO, Francisco, PEREDA, Ernesto

P2-077

REDUCED BETA BAND CONNECTIVITY DURING NUMBER ESTIMATION IN AUTISM
BANGEL, Katrin, BATTY, Magali, YE, Annette, MEAUX, Emilie, TAYLOR, Margot, DOESBURG, Sam

P2-078

CORTICAL SOMATOSENSORY REORGANIZATION IN CHILDREN WITH SPASTIC CEREBRAL PALSY: A MULTIMODAL NEUROIMAGING STUDY
PAPADELIS, Christos, AHTAM, Banu, NAZAROVA, Maria, SNYDER, Brian, GRANT, Ellen, OKADA, Yoshio

P2-079

GLIAL TUMOR LOCALIZATION AND CHARACTERIZATION USING DTI AUGMENTED MEG MODELLING
DURAND, Pierre, AUBOIROUX, Vincent, ROHU, Victor, LANGAR, Lilia, BERGER, François, LABYT, Etienne

P2-080

LOCALIZATION OF THE SPATIAL EXTENT OF THE GENERATORS OF EPILEPTIC DISCHARGES IN EEG AND MEG: COMPARISON BETWEEN 4-EXSO-MUSIC AND MEM APPROACHES
CHOWDHURY, Rasheda, MERLET, Isabelle, BIROT, Gwenaél, ALBERA, Laurent, KOBAYASHI, Eliane, LINA, Jean-Marc, WENDLING, Fabrice, GROVA, Christophe

Motor Systems

P2-081

WITHIN- AND CROSS-FREQUENCY ALPHA-BETA AMPLITUDE CORRELATIONS PREDICT REACTION TIMES DURING ACTION OBSERVATION
TAN, Heng-Ru May, LEUTHOLD, Hartmut, GROSS, Joachim

P2-082

HOW STABLE ARE GAMMA OSCILLATIONS OVER TIME? SEARCHING FOR A GAMMA "FINGERPRINT" IN THE BRAIN
CHEYNE, Douglas, FERRARI, Paul

P2-083

OSCILLATORY DYNAMICS REFLECT DIRECTIONAL UNCERTAINTY DURING MOTOR PLANNING
TZAGARAKIS, Charidimos, WEST, Sarah, PELLIZZER, Giuseppe

P2-084

PREMOVEMENT POTENTIALS INDEX LEVELS OF PHYSICAL FITNESS
GORDON, Ronald, RZEMPOLUCK, Edward

P2-085

MOTOR-CORTICAL OSCILLATIONS ASSOCIATED WITH SEQUENCE LEARNING
POLLOK, Bettina, LATZ, David, KRAUSE, Vanessa, SCHNITZLER, Alfons

P2-086

THE ROLE OF GAMMA CONNECTIVITY OF PREFRONTAL AREA DURING BEREITSCHAFTSPOTENTIAL
KIM, Kisun, KIM, June Sic, CHUNG, Chun Kee

P2-087

IMPACT OF EXPERIMENT DURATION ON THE ACCURACY OF FUNCTIONAL MAPPING USING CORTICOKINEMATIC COHERENCE
MARTY, Brice, BOURGUIGNON, Mathieu, OP DE BEECK, Marc, WENS, Vincent, GOLDMAN, Serge, VAN BOGAERT, Patrick, JOUSMÄKI, Veikko, DE TIÈGE, Xavier

Motor Systems

continued

P2-088
IMAGING SPATIAL
REORGANIZATION OF
FUNCTIONAL NETWORKS
O'NEILL, George,
BROOKES, Matthew

P2-089
LATERALITY OF MOTOR
IMAGERY BASED BRAIN
ACTIVITY IS MODULATED
BY REAL-TIME NEURO-
FEEDBACK.
GIONFRIDDO, Alicia,
KRAEUTNER, Sarah,
BARDOUILLE, Timothy,
BOE, Shaun

P2-090
LOCAL COMPUTATION
GLOBAL IMPACT: BRAIN
OSCILLATIONS MAINTAINING
THE SEGREGATION/
INTEGRATION BALANCE AND
OPTIMIZING BEHAVIORAL
PERFORMANCE
POPOV, Tzvetan, WEISZ,
Nathan, WIENBRUCH,
Christian

P2-091
LEARNING TO IMAGINE:
BRAIN ACTIVITY FROM
MOTOR IMAGERY PARALLELS
THAT OF MOTOR EXECUTION
AFTER REPEATED SESSIONS
KRAEUTNER, Sarah,
GIONFRIDDO, Alicia,
BARDOUILLE, Tim,
BOE, Shaun

P2-092
DOES THE EFFECT OF
TMS COIL ORIENTATION
ON MOTOR EVOKED
POTENTIALS DEPEND ON
ELECTROMYOGRAPHY
ELECTRODES
ARRANGEMENT?
SOUZA, Victor Hugo O.,
VIEIRA, Taian M. M., BAFFA,
Oswaldo, GARCIA, Marco A.
C., PERES, André S. C.

P2-093
ACUTE EFFECTS OF ALCOHOL
ON RESTING-STATE ACTIVITY
AND TASK-INDUCED GAMMA
OSCILLATIONS IN HUMAN
PRIMARY VISUAL AND MOTOR
CORTICES
CAMPBELL, Anne,
SUMNER, Petroc,
SINGH, Krish,
MUTHUKUMARASWAMY,
Suresh

P2-094
NEURAL DYNAMICS OF
PREHENSION
TURELLA, Luca,
TUCCIARELLI, Raffaele,
WEISZ, Nathan, RUMIATI,
Raffaella, LINGNAU,
Angelika

P2-095
THE REPRESENTATION OF
OBSERVED ACTIONS – AN
MEG ADAPTATION STUDY
HAUSWALD, Anne,
TUCCIARELLI, Raffaele,
LINGNAU, Angelika

P2-096
MOVEMENT-RELATED HIGH
GAMMA OSCILLATIONS
CAN BE ELICITED WITHOUT
MOVEMENT BY MIRROR
VISUAL FEEDBACK
BUTORINA, Anna, PROKOFYEV,
Andrey, NAZAROVA,
Maria, LITVAK, Vladimir,
STROGANOVA, Tatiana

P2-097
SIMULATIONS OF
SPONTANEOUS
BRAINACTIVITY AND
EEGOSCILLATIONS WITH
AREALISTIC HEAD MODEL
RAMON, Ceon

Poster Session 3:

Tuesday, August, 26th,
6:30 pm – 8:00 pm

Language

P3-001
GENETIC AND ENVIRONMEN-
TAL INFLUENCES ON LINGUIS-
TIC CEREBRAL FUNCTION IN
ELDERLY TWINS USING MEG
ARAKI, Toshihiko, HIRATA,
Masayuki, YANAGISAWA,
Takufumi, SUGATA, Hisato,
ONISHI, Mai, OMURA,
Kayoko, HONDA, Chika,
HAYAKAWA, Kazuo,
YORIFUJI, Shiro

P3-002
SPATIO-TEMPORAL
DYNAMICS OF SYNTACTIC
AMBIGUITY COMPUTATION
CHEUNG, Teresa P L, CLARKE,
Alex, TYLER, Lorraine K

P3-003
INCREASING NETWORK SYN-
CHRONIZATION IS ASSOCIAT-
ED WITH THE DEVELOPMENT
OF LANGUAGE ABILITIES
DOESBURG, Sam, TINGLING,
Kerian, MACDONALD, Matt,
PANG, Elizabeth

P3-004
EARLY DIFFERENCES IN
SEMANTIC PROCESSING
DURING VISUAL NAMING: A
MEG STUDY
MUNDING, Dashiell,
DUBARRY, Anne-Sophie,
CHEN, Sophie, LONGCAMP,
Marieke, ALARIO,
Francois-Xavier

P3-005
MEG ASSESSMENT OF
EXPRESSIVE LANGUAGE IN
CHILDREN EVALUATED FOR
EPILEPSY SURGERY.
FOLEY, Elaine, FURLONG,
Paul, THAI, Ngoc Jade,
WITTON, Caroline,
SERI, Stefano

P3-006
DEVELOPMENTAL CHANGES
IN EXPRESSIVE LANGUAGE
NETWORK CONNECTIVITY
KADIS, Darren S.,
DIMITRIJEVIC, Andrew,
TORO SEREY, Claudio,
PANG, Elizabeth W.

P3-007
LANGUAGE-MOTOR
INTERFERENCE REFLECTED
IN BETA OSCILLATIONS
KLEPP, Anne,
NICCOLAI, Valentina,
BUCCINO, Giovanni,
SCHNITZLER, Alfons,
BIERMANN-RUBEN, Katja

P3-008
DECODING THE SEMANTICS
OF WORDS IN ACTIVE AND
PASSIVE SENTENCES FROM
NEURAL ACTIVITY
LAING, Erika, RAFIDI, Nicole,
MITCHELL, Tom

P3-009 **HOT TOPIC**
MEG-DERIVED NEURAL
OSCILLATORY ACTIVITY
DIFFERENTIATES SENTENCE
PROCESSING FROM WORD
LIST PROCESSING IN
THETA, BETA, AND GAMMA
FREQUENCY BANDS ACROSS
TIME AND SPACE
LAM, Nietzsche,
SCHOFFELEN, Jan-
Mathijs, HULTÉN, Annika,
HAGOORT, Peter

P3-010
LANGUAGE LATERALITY
INDICES FROM TWO
MEG TASKS AND THE
COMPARISON WITH FMRI
RESULTS FOR THE SAME
PATIENTS WITH LEFT
LANGUAGE DOMINANCE
LI, Zhimin, RAGHAVAN,
Manoj, BINDER, Jeffrey,
CARLSON, Chad,
ANDERSON, Christopher,
SWANSON, Sara

P3-011
TRACKING CORTICAL
LANGUAGE PROCESSING
STREAMS WITH NAVIGATED
TMS
MÄKELÄ, Niko, LEMINEN,
Alina, CONNOLLY, John,
ILMONIEMI, Risto

P3-012
MEG ACTIVITY FOR
PHONOLOGICAL AND
SEMANTIC RESOURCES
IN VERBAL SHORT-TERM
MEMORY
MELTZER, Jed, KIELAR,
Aneta, ROSE, Nathan,
PANAMSKY, Lilia, LEIGH,
Rosie, LINKS, Kira

P3-013
PHONOLOGICAL DISORDERS
IN DYSLEXIA: MEG EVIDENCE
FOR IMPAIRED CONNECTIVITY
MOLINARO, Nicola,
LIZARAZU, Mikel,
BOURGUIGNON,
Mathieu, LALLIER, Marie,
CARREIRAS, Manuel

P3-014
VALIDITY OF DETERMINING
LANGUAGE LATERALITY
USING TRANSCRANIAL
MAGNETIC STIMULATION:
COMPARISON WITH MEG AND
CORTICAL STIMULATION
NARAYANA, Shalini, REZAIE,
Roozbeh, BIRG, Liliya,
SCHILLER, Katherine,
BOOP, Frederick, WHELESS,
James, PAPANICOLAOU,
Andrew

P3-015
NEURAL DYNAMICS OF
VISUAL WORD RECOGNITION
QUINN, Andrew, HYMERS,
Mark, JOHNSON,
Sam, LOBIER, Muriel,
WHEAT, Katie, HANSEN,
Peter, GREEN, Gary,
CORNELISSEN, Piers

Language

continued

P3-016

INTEGRATING LEXICAL-SEMANTIC FEATURES AT DIFFERENT CORTICAL SCALES: A DISSOCIATION BETWEEN THETA AND GAMMA OSCILLATIONS IN THE ANTERIOR TEMPORAL LOBE
VAN ACKEREN, Markus J., SCHNEIDER, Till R., MUESCH, Kathrin, RUESCHEMEYER, Shirley-Ann

P3-017

IMPACT OF COCKTAIL PARTY NOISE ON THE DYNAMIC MODULATION OF AUDITORY BETA-BAND OSCILLATIONS BY VOICE POWER
VANDER GHINST, Marc, BOURGUIGNON, Mathieu, WENS, Vincent, MARTY, Brice, OP DE BEECK, Marc, HASSID, Sergio, CHOUFANI, Georges, VAN BOGAERT, Patrick, GOLDMAN, Serge, DE TIÈGE, Xavier

Memory and Learning

P3-018

IS EYE-CLOSURE ALPHA RELATED TO MEMORY-SUCCESS ALPHA?
BASTARRIKA, A., DAVIDSON, D. J.

P3-019

NEUROFUNCTIONAL DIFFERENCES OF MILD TRAUMATIC BRAIN INJURY ELICITED DURING A WORKING MEMORY TASK
CASSEL, Daniel B., DUNKLEY, Benjamin T., DA COSTA, Leo, ROBERTSON, Amanda, BETHUNE, Allison, URBAIN, Charline M., PANG, Elizabeth W., TAYLOR, Margot J.

P3-020

IDENTIFYING THE MEG SOURCES THAT SUPPORT THE FORMATION OF SPATIOTEMPORAL MEMORIES
CRESPO-GARCIA, Maite, RAMPP, Stefan, KAISER, Mathis, ZEILLER, Monika, KREISELMAYER, Gernot, HAMER, Hajo, DALAL, Sarang S.

P3-021

STATISTICAL LEARNING IN LANGUAGE ACQUISITION
DAIKOKU, Tatsuya, YATOMI, Yutaka, YUMOTO, Masato

P3-022

SPATIOTEMPORAL OSCILLATORY DYNAMICS DURING THE ENCODING PERIOD OF A VISUAL WORKING MEMORY TASK
HEINRICHS-GRAHAM, Elizabeth, WILSON, Tony W.

P3-023

SUSTAINED ACTIVITY IN HUMAN AUDITORY CORTEX DURING A WORKING-MEMORY TASK: AN MEG STUDY
MATYSIAK, Artur, ZACHARIAS, Norman, ABU EDI, Nadia, HEIL, Peter, KOENIG, Reinhard

P3-024

VIDEO-GAME NEUROFEED-BACK SYSTEM FOR TRAINING OF BRAIN MACHINE INTERFACE: A COMBINED EEG AND MEG STUDY
ONDA, Masanori, TSUBAKIDA, Hirohisa, ONO, Yumie, ISHIYAMA, Atsushi

P3-025

WORKING MEMORY ABILITY ASSOCIATED WITH LOAD-DEPENDENT DESYNCHRONY IN INFERIOR PARIETAL AND PRECUNEUS REGIONS DURING AN N-BACK TASK
BRINDLEY, Lisa, BREALY, Jennifer, FOWLER, Neil, MUTHUKUMARASWAMY, Suresh, SINGH, Krish, LINDEN, David

P3-026

SLEEP-DEPENDENT CHANGES IN LEARNING-RELATED MAGNETIC EVOKED FIELDS IN CHILDREN
URBAIN, Charline, DE TIÈGE, Xavier, OP DE BEECK, Marc, NONCLERCQ, Antoine, VERHEULPEN, Denis, BOURGUIGNON, Mathieu, SCHMITZ, Remy, GALER, Sophie, VAN BOGAERT, Patrick, PEIGNEUX, Philippe

P3-027

READING WHAT'S ON YOUR MIND: DECODING IMAGES OF DIFFERENT CATEGORIES FROM WORKING MEMORY MAINTENANCE
VAN DE NIEUWENHUIJZEN, Marieke, JENSEN, Ole, VAN GERVEN, Marcel

P3-028

GAMMA OSCILLATIONS UNDERLIE THE MAINTENANCE AND INTEGRATION OF FEATURES IN VISUAL WORKING MEMORY
WANG, Sheng H., HONKANEN, Roosa, ROUHINEN, Santeri, SIEBENHÜHNER, Felix, PALVA, J. Matias, PALVA, Satu

P3-029

SERIAL-POSITION CURVE OF ALPHA-BAND AMPLITUDE SHOWN IN A SHORT-TERM MEMORY TASK
CHITOSE, Ryota, KURIKI, Shinya, YOKOSAWA, Koichi

P3-030

LONG-TERM ARTISTIC TRAINING MODULATES ALPHA OSCILLATIONS IN THE INFERIOR FRONTAL GYRUS
LIU, Tai-Ying, CHENG, Li-Kai, YU, Hsin-Yen, CHEN, Yong-Sheng, HSIEH, Jen-Chuen, CHEN, Li-Fen

Methods & Modeling I: Connectivity, Causality & Oscillations

P3-031

TRANSIENT AND BI-STATE LARGE-SCALE CONNECTIVITY IN SPONTANEOUS BRAIN ACTIVITY
AHMAD, Faysal, BAKER, Adam, LUCKHOO, Henry, KRINGELBACH, Morten, DECO, Gustavo, SMITH, Stephen, WOOLRICH, Mark

P3-032 **HOT TOPIC**

PHASE-SLOPE ANALYSIS REVEALS TOP-DOWN DIRECTIONALITY OF FRONTO-TEMPORAL COHERENCE IN OBJECT-BASED ATTENTION
BALDAUF, Daniel, DESIMONE, Robert

ATTENTIONAL ENHANCEMENT OF AUDITORY MISMATCH RESPONSES: A DCM/MEG STUDY
AUKSZTULEWICZ, Ryszard, FRISTON, Karl J.

P3-034

DESPIKIFICATION OF MEG AND SEEG SIGNAL FOR INVESTIGATING EPILEPTIC OSCILLATIONS IN THE GAMMA BAND
JMAIL, Nawel, GAVARET, Martine, BARTOLOMEI, Fabrice, CHAUVEL, Patrick, BADIÉ, Jean-Michel, BÉNAR, Christian-G.

P3-035

MOVEMENT-RELATED EVOKED FIELDS USING TRIGGERS FROM ACCELEROMETER SIGNALS
ALMUBARAK, Salah

P3-036

DIFFUSION MAGNETIC RESONANCE INFORMATION AS A REGULARIZATION TERM FOR MEG/EEG INVERSE PROBLEM
BELAOUCHA, Brahim, PHILIPPE, Anne-Charlotte, CLERC, Maureen, PAPADOPOULOU, Théodore

P3-037

ALPHA TO GAMA CROSS FREQUENCY COUPLING IS ABNORMAL IN AUTISM SPECTRUM DISORDER
BERMAN, Jeffrey, LIU, Song, BLOY, Luke, BLASKEY, Lisa, ROBERTS, Timothy, EDGAR, J. Christopher

P3-038

ASSESSING THE DYNAMICS OF BRAIN CONNECTIVITY: NETWORK CHANGES RESULTING FROM LEARNING REVEALED USING GRAPH THEORY
BISHOP, Ronald, CHOI, Ashley, BARDOUILLE, Timothy, BOE, Shaun

P3-039

PERFORMING NETWORK CONNECTIVITY ANALYSES BETWEEN REGIONS OF INTEREST USING MAGNETO-ENCEPHALOGRAPHY
COLCLOUGH, Giles, LUCKHOO, Henry, BROOKES, Matthew, WOOLRICH, Mark, SMITH, Stephen

Methods & Modeling I: Connectivity, Causality & Oscillations

continued

P3-040

ENHANCED CAUSALITY ANALYSIS IN SOURCE SPACE BASED ON CROSS TRIAL PHASE STATISTICS
DAMMERS, Jürgen,
FASOULA, Angie,
SCHWARTZ, Denis,
GEORGE, Nathalie

P3-041

PROPAGATION OF EPILEPTIC SPIKES REVEALED BY DIFFUSION-BASED CONSTRAINED MEG SOURCE RECONSTRUCTION
PHILIPPE, Anne-Charlotte,
BÉNAR, Christian,
BADIER, Jean-Michel,
PAPADOPOULOU, Théodore,
DERICHE, Rachid, CLERC,
Maureen

P3-042

WEDGE MUSIC: A NOVEL APPROACH TO EXAMINE EXPERIMENTAL DIFFERENCES OF BRAIN SOURCE CONNECTIVITY PATTERNS FROM EEG/MEG DATA ROBUST TO VOLUME CONDUCTION
EWALD, Arne, SHAHBAZI
AVARVAND, Forooz, NOLTE,
Guido

P3-043

GROUP-WISE ICA FOLLOWED BY BEAMFORMING ALLOWS ROBUST NETWORK DETECTION FOR FUNCTIONAL CONNECTIVITY ANALYSIS IN MEG
FATIMA, Zainab,
KOVACEVIC, Natasa,
CHEUNG, Michael,
QURAAN, Maher,
MCINTOSH, Anthony Randal

P3-044

UTILISING DYNAMIC CAUSAL MODELS TO EXPLORE NEURONAL NETWORK DYNAMICS OF GENETIC ION CHANNELOPATHIES
GILBERT, Jessica,
SYMMONDS, Mkael,
MORAN, Rosalyn

P3-045

GPS: A GUI-BASED AUTOMATED PROCESSING STREAM FOR KALMAN-FILTER ENABLED GRANGER ANALYSIS OF MR-CONSTRAINED MEG/EEG DATA
GOW, David, OLSON, Bruna

P3-046

CRITICAL-STATE DYNAMICS OF SPONTANEOUS OSCILLATIONS LEADS TO OPTIMAL RANGE OF EVOKED RESPONSES
HARDSTONE, Richard,
LUECKMANN, Jan-Matthis,
BIM, Jan, MANSVELDER,
Huibert D., LINKENKAER-
HANSEN, Klaus

P3-047

NARRATIVES CONSISTENTLY MODULATE ALPHA-BAND ACTIVITY
HAUFE, Stefan,
DEGUZMAN, Paul,
ROSENTHAL, Daniel,
HASSON, Uri, PARRA, Lucas

P3-048

INTRODUCING SPOC: A MULTIVARIATE ANALYSIS FRAMEWORK FOR THE INVESTIGATION OF CROSS-FREQUENCY POWER COUPLING AS WELL AS FOR MULTIMODAL INTEGRATION OF EEG/MEG POWER WITH HEMODYNAMICS
DÄHNE, Sven, HAUFE,
Stefan, NIKULIN, Vadim,
MÜLLER, Klaus-Robert

P3-049

COMPARISON BETWEEN BEAMFORMING AND MINIMUM-NORM ESTIMATES FOR THE DETECTION OF LONG-RANGE COHERENCE IN MEG SOURCE-SPACE
HINCAPIÉ, Ana Sofía,
KUJALA, Jan, MERY,
Domingo, COSMELLI, Diego,
JERBI, Karim

P3-050

SPECTRAL SIGNATURES OF BRAIN NETWORK DEVELOPMENT
KHAN, Sheraz, A. HASHMI,
Javeria, GOLLUB, Randy,
KONG, Jian, HAMALAINEN,
Matti, STUFFLEBEAM,
Steven, KENET, Tal

P3-051

CONNECTIVITY ANALYSIS USING VIRTUAL TANGENTIAL COMPONENTS OF THE NEUROMAGNETIC FIELDS
KIM, Min-Young, KWON,
Hyukchan, KIM, Kiwoong,
LEE, Yong-Ho, KIM, Ji-Woong

P3-052

CONNECTIVITY PATTERNS OF SLEEP MICROSTRUCTURAL ELEMENTS
SAKELLARIOU, Dimitris
F., KOUPPARIS, Andreas
M., KOKKINOS, Vasileios,
KOSTOPOULOS, George K.

P3-053

CONNECTIVITY IN LANGUAGE NETWORK AFTER HEMISPHEROTOMY
KYONG, Jeong-Sug, KIM,
June Sic, CHUNG, Chun Kee

P3-054

DYNAMIC CAUSAL MODELING (DCM) OF SEMANTIC AND EPISODIC MEMORY IN HEALTHY ELDERLY SUBJECTS: AN MEG STUDY
ATTAL, Yohan,
LEMARÉCHAL, Jean-Didier,
LA CORTE, Valentina,
SCHWARTZ, Denis,
GEORGE, Nathalie, DAVID,
Olivier

P3-055

TIME-VARYING CONNECTIVITY ANALYSIS BASED ON MEG BRAIN IMAGING
MARTÍNEZ-VARGAS,
Juan David, CASTAÑO-
CANDAMIL, Juan Sebastián,
LÓPEZ-HINCAPIÉ, José
David, BARNES, Gareth

P3-056

INTERACTION SPACE RAP-MUSIC FOR ESTIMATION OF TRANSIENT NETWORKS FROM MEG DATA
OSSADTCHI, Alexei,
STROGANOVA, Tatiana

P3-057

FREQUENCY SPECIFIC NETWORK INTEGRATION AND SEGREGATION PROPERTIES OF MEG RESTING STATE FUNCTIONAL CONNECTIVITY
MARZETTI, Laura, CHELLA,
Federico, ZAPPASODI,
Filippo, ROMANI, Gian Luca,
PIZZELLA, Vittorio

P3-058

EMPIRICAL BAYES FOR SUB-CORTICAL STRUCTURES
MEYER, Sofie S,
TROEBINGER, Luzia,
WOOLRICH, Mark,
BROOKES, Matt, BARNES,
Gareth

P3-059

ASSESSING SUBCOMPONENTS OF RESTING STATE NETWORKS AND NETWORK VISITATION WITH MEG
NEST, Timothy

P3-060

EFFICIENT DIMENSIONALITY REDUCTION OF THE LARGE-SCALE CONNECTIVITY PROBLEM
NISO, Guiomar, DERY,
Sebastien, TADEL, François,
BAILLET, Sylvain

P3-061

COMPARING LINEAR AND NON-LINEAR DYNAMIC FUNCTIONAL CONNECTIVITY
O'NEILL, George,
WOOLRICH, Mark, MORRIS,
Peter, BROOKES, Matthew

P3-062

CROSS-FREQUENCY INFORMATION TRANSFER DURING CONTINUOUS SPEECH PERCEPTION
PARK, Hyojin, THUT, Gregor,
GROSS, Joachim

P3-063

REPRODUCIBILITY OF HEALTHY ADULTS' GAMMA-BAND ACTIVITY IN RESPONSE TO AUDITORY STIMULI
PORT, Russell, ROBERTS,
Timothy

P3-064

AUDITORY-DRIVEN CROSS MODAL PHASE-RESET OF CORTICAL OSCILLATIONS IN VISUAL CORTEX
PRINSLOO, Kevin, CAO,
Liyu, THUT, Gregor, GROSS,
Joachim

P3-066

A TIME-RESOLVED MEASURE OF CROSS-FREQUENCY PHASE-AMPLITUDE COUPLING IN NEURAL OSCILLATIONS
SAMIEE, Soheila, BAILLET,
Sylvain

Methods & Modeling I: Connectivity, Causality & Oscillations

continued

P3-067

CHARACTERIZATION OF LOCAL AND GLOBAL SYNCHRONIZATION PATTERNS OF AUDITORY ENTRAINMENT: EXPLORING THE ROLE OF THE MODULATION FREQUENCY
SANCHEZ, Carolina, HARTMANN, Thomas, RUHNAU, Philipp, DEMARCHI, Gianpaolo, WEISZ, Nathan

P3-068

HARMONIC CROSS-FREQUENCY PHASE SYNCHRONIZATION IN HUMAN VISUAL WORKING MEMORY
SIEBENHÜHNER, Felix, PALVA, Matias, PALVA, Satu

P3-069

ALPHA BAND FUNCTIONAL CONNECTIVITY IMAGING AND PERFORMANCE OF BRAIN-MACHINE INTERFACE DURING REAL AND IMAGINED MOVEMENTS
SUGATA, Hisato, HIRATA, Masayuki, YANAGISAWA, Takufumi, YORIFUJI, Shiro, YOSHIMINE, Toshiaki

P3-070

ON THE DISCOVERY OF PATTERNS OF BRAIN CONNECTIVITY THAT SPAN IN TIME AND FREQUENCY
VIDAURRE, Diego, WOOLRICH, Mark W

P3-071

MODELING AND CORRECTING FOR LINEAR SPATIAL LEAKAGE EFFECTS IN MEG SEED-BASED FUNCTIONAL CONNECTIVITY MAPPING
WENS, Vincent, MARY, Alison, MARTY, Brice, BOURGUIGNON, Mathieu, OP DE BEECK, Marc, GOLDMAN, Serge, VAN BOGAERT, Patrick, PEIGNEUX, Philippe, DE TIÈGE, Xavier

P3-072

DETECTION PERFORMANCE FOR MEASURING SYNCHRONY – A SIMULATION STUDY
WIANDA, Elvis, ROSS, Bernhard

P3-073

QUANTIFICATION OF HIGH-FREQUENCY OSCILLATIONS WITH ACCUMULATED SOURCE IMAGING
XIANG, Jing

P3-074

OSCILLATORY ACTIVITY ASSOCIATED WITH COGNITIVE MAP GENESIS
ZEILLER, Monika, CRESPO GARCÍA, Maité, RAMPP, Stefan, KREISELMEYER, Gernot, HAMER, Hajo, DALAL, Sarang

P3-075

FUNCTIONAL SYNCHRONY: EXPLORING THE PHASE-COUPLED CORTICAL NETWORKS UNDERLYING SLEEP SPINDLES FROM MEG RECORDINGS
ZEROUALI, Younes

Other Topics in Biomagnetism and Related Fields

P3-076

MAGNETOCARDIOGRAPHY AS PART OF MULTIMODAL NONINVASIVE IMAGING OF MYOCARDIUM IN “DIFFICULT-TO-DIAGNOSE PATIENTS” WITH CORONARY ARTERY DISEASE
CHAIKOVSKY, Ilya, MJASNIKOV, Georg, SOSNYTSKAJA, Taisiya

P3-077

ASSRS IN MEG TO TWO-VOICE MUSICAL FRAGMENTS
ENDO, Yuta, NEMOTO, Iku

P3-078

ULTRA LOW NOISE SQUID SYSTEM FOR ULTRA-LOW FIELD NMR AND MEG
KÖRBER, Rainer, BURGHOF, Martin

P3-079

FLUX-TRAPPING IN TYPE-II SUPERCONDUCTING PICK-UP COIL AND PREPOLARIZING COIL DUE TO STRONG MAGNETIC FIELD FROM THE PREPOLARIZING COIL
HWANG, Seong-min, KIM, Kiwoong, YU, Kwon Kyu, LEE, Seong-Joo, SHIM, Jwong Hyun, KOERBER, Rainer, BURGHOF, Martin

P3-080

THE ELECTROMAGNETIC FIELD OF TMS PULSES IN NON-TARGETED REGIONS: IMPLICATIONS FOR SAFETY
KOPONEN, Lari M., NIEMINEN, Jaakko O., ILMONIEMI, Risto J.

P3-081

THE RELAXATION MEASUREMENT OF BREAST CANCER TISSUE BY USING SQUID-BASED LOW FIELD NMR
LEE, Seong-Joo, SHIM, Jeong Hyun, KIM, Kiwoong, HWANG, Seong-min, YU, Kwon Kyu, LIM, Sanghyun, HAN, Jae Ho

P3-082

EFFECTIVE ON- AND OFFLINE METHODS FOR REMOVING TMS-RELATED EEG ARTIFACTS
MUTANEN, Tuomas P., KUKKONEN, Matleena, MÄKI, Hanna, NIEMINEN, Jaakko O., ILMONIEMI, Risto J.

P3-083

TOWARDS MICRO-MAGNETIC STIMULATION OF AUTONOMIC NERVOUS SYSTEM – DEVELOPMENT OF IN VITRO MODEL SYSTEM –
OIWA, Kosuke, SHIMBA, Kenta, NUMATA, Takashi, TAKEUCHI, Akimasa, YUNOKUCHI, Kazutomo, KOTANI, Kiyoshi, JIMBO, Yasuhiko

P3-084

A 375-CHANNEL PEDIATRIC “BABYMEG” SYSTEM: DESIGN AND BASIC PERFORMANCE
OKADA, Yoshio, PAULSON, Douglas, GRANT, Ellen, PAPADELIS, Christos, CHIRAN, Doshi, NAYAK, Tapsya, LUESSI, Martin, SUN, Limin, LEW, Seok, NUMMENMAA, Aapo, MASCARENAS, Anthony, PRATT, Kevin, MILLER, Paul, ROBLES, Jose, CAVELLINI,

Anders, HANG, Menglai, POWER, Bill, HÄMÄLÄINEN, Matti

Physiological Basis for MEG and EEG Signals

P3-085

COMPARISON OF SOURCE ESTIMATION OF ICTAL AND INTERICTAL EPILEPTIC DISCHARGES BETWEEN MEG AND DEEG
FUJIWARA, Hisako, GREINER, Hansel, TENNEY, Jeffrey, ROSE, Douglas

P3-086

VISUAL EVOKED FIELDS – RELATING TO APPARENT MOTION ILLUSION
HOSHINO, Ikumi

P3-087

QUALITY-CONTROL AND OPTIMAL SPECTRAL RECONSTRUCTION OF OSCILLATORY PARAMETERS IN STUDIES OF INDIVIDUAL VARIABILITY AND PHARMACO-MEG
MAGAZZINI, Lorenzo, MUTHUKUMARASWAMY, Suresh D., SINGH, Krish D.

P3-088 **HOT TOPIC**

CAN MEG DISTINGUISH SUBCOMPONENTS OF THE GABAERGIC SIGNALLING SYSTEM?
NUTT, David, WILSON, Sue, MYERS, Jim, LINGFORD-HUGHES, Anne, PAPADOPOULOS, Andreas, MUTHUKUMARASWAMY, Suresh

Psychiatric Disorders

P3-089

GAMMA-BAND MODULATION IN THE AMYGDALA DURING EMOTIONAL FACE PROCESSING IN RESPONSE TO KETAMINE
ARD, Tyler, NUGENT, Allison, FUREY, Maura, ZARATE, Carlos

P3-090

ABNORMALITIES IN SYNCHRONY AND ENTROPY IN PSYCHOSIS
ROBSON, Siân, HALL, Emma, PALANIYAPPAN, Lena, LIDDLE, Peter, LIDDLE, Elizabeth, KUMAR, Jyothika, CHRISTODOULOU, Nikolaos, SKELTON, Michael, QURESHI, Ayaz, JAN, Fiesal, MORRIS, Peter, BROOKES, Matthew

P3-091

AN MEG STUDY OF MOTOR-RELATED BETA OSCILLATIONS DURING MOTOR IMITATION IN AUTISM
BUARD, Isabelle, STEINMETZ, Sarah, GADDIPATI, Himaja, HEPBURN, Susan, ROJAS, Donald C

P3-092

AUDITORY ENCODING ABNORMALITIES IN SCHIZOPHRENIA: ASSOCIATIONS WITH GRAY-MATTER CORTICAL THICKNESS AND ATTENTION
CHEN, Yuhang, HOWELL, Breannan, EDGAR, J. Christopher, HUANG, Mingxiong, WOOTTON, Cassandra, HUNTER, Michael, CANIVE, Jose

Psychiatric Disorders

continued

P3-093

THE EFFECTS OF ESZOPI-
CLONE ON SLOW WAVE MOD-
ULATION OF SLEEP SPINDLES
IN SCHIZOPHRENIA
DEMANUELE, Charmaine,
BARTSCH, Ullrich,
WAMSLEY, Erin, SHINN,
Ann, GOFF, Donald, JONES,
Matthew, STICKGOLD,
Robert, MANOACH, Dara

P3-094

USING MEG TO EXAMINE
TOP-DOWN REGULATION IN
FIBROMYALGIA
GOLDSTEIN, Abraham,
ZEEV-WOLF, Maor, ABLIN,
Jacob

P3-095

THE TIMING OF AUDITORY
VERBAL HALLUCINATION
NETWORKS IN
SCHIZOPHRENIA
HOUCK, Jon, BIGELOW,
Rose, CALHOUN, Vince,
BUSTILLO, Juan, WILHELM,
Corbin, TURNER, Jessica,
THOMA, Robert

P3-096

ALTERED PROCESSING OF
EMOTIONAL CONFLICT IN
PMDD: A MEG STUDY
HUANG, Chiu-Jung, TU,
Cheng-Hao, SU, Tung-Ping,
HSIEH, Jen-Chuen, CHEN,
Li-Fen

P3-097

EXAMINING NEURAL
SYNCHRONY IN AUTISM
SPECTRUM DISORDERS
WITH MAGNETOENCEPH-
ALOGRAPHY (MEG) DURING
RESTING STATE
LAJINESS-O'NEILL,
Renee, RICHARD, Annette,
BRENNAN, Jonathan,
KOVELMAN, Ioulia,
BOWYER, Susan

P3-098

INVESTIGATING SENTENCE-
LEVEL AUDITORY DISCRIMI-
NATION IN AUTISM WITH MAGNE-
TOENCEPHALOGRAPHY
MODY, Maria, SCHWARTZ,
Shira, WREH II, Christopher,
AHLFORS, Seppo P.

P3-099

PHYSIOLOGICAL INDICATORS
OF MULTISENSORY
FACILITATION IN
SCHIZOPHRENIA
STEPHEN, Julia, COFFMAN,
Brian, STONE, David,
CLIFFORD, Christopher,
HOOD, Stephanie, AINE,
Cheryl, BUSTILLO, Juan

P3-100

TRANSCRANIAL MAGNETIC
STIMULATION USING
FIGURE-OF-EIGHT COIL WITH
BENDING WINGS
LU, Mai, UENO, Shoogo

Somatosensory Processing

P3-101

PRESTIMULUS ALPHA PHASE
IN THE SOMATOSENSORY
CORTEX INFLUENCES TEMPO-
RAL PERCEPTUAL DISCRIMI-
NATION OF TACTILE STIMULI
BAUMGARTEN, Thomas,
SCHNITZLER, Alfons,
LANGE, Joachim

P3-102

CORTICAL GAMMA BAND
OSCILLATIONS DURING
SOMATIC AND VISCERAL PAIN
FURLONG, Paul L,
WORTHEN, Sian, WITTON,
Caroline, FARMER, Adam D,
AZIZ, Qasim, HALL, Stephen
D, ROSSITER, Holly

P3-103

SOMATOSENSORY PLASTICITY
REVEALED BY NEUROMAGNET-
IC BETA AND GAMMA OSCILLA-
TIONS: EFFECTS OF TRAINING
AND PASSIVE STIMULATION
JAMALI, Shahab, FUJIOKA,
Takako, ROSS, Bernhard

P3-104

OSCILLATORY ACTIVITY IN THE
SOMATOSENSORY CORTI-
CES PREDICTS THE MOTOR
PERFORMANCE OF CHILDREN
WITH CEREBRAL PALSY
KURZ, Max, HEINRICHS-
GRAHAM, Elizabeth,
BECKER, Katherine,
WILSON, Tony

P3-105

DISINHIBITION OF THE
PRIMARY SOMATOSENSORY
CORTEX IS ASSOCIATED
WITH CLINICAL PAIN
SEVERITY IN PATIENTS WITH
FIBROMYALGIA
LIM, Manyoel, ROOSINK,
Meyke, KIM, June Sic, KIM,
Dajung, KIM, Hye Won, LEE,
Eun Bong, KIM, Hyun Ah,
CHUNG, Chun Kee

P3-106

DO BLIND SUBJECTS USE
VISUAL AREAS TO PROCESS
SENSORY STIMULI?
LIU, Lichan, IOANNIDES,
Andreas, POGHOSYAN,
Vahe, SARIDIS, George,
GJEDDE, Albert, PTITO,
Maurice, KUPERS, Ron

P3-107

MODELING MAGNETIC FIELDS
OF EVOKED RESPONSES
DUE TO REPEATED
SENSORY STIMULATION
USING DYNAMICAL
CAUSAL MODELING OF
INTER-LAMINAR SYNAPTIC
CONNECTIONS
MAESS, Burkhard, WANG,
Peng, NAKAMURA, Akinori,
KNÖSCHE, Thomas

P3-108

EFFECTIVE CONNECTIVITY
AMONG BRAIN GENERATORS
OF SOMATOSENSORY
EVOKED HIGH FREQUENCY
OSCILLATIONS
NAYAK, Tapsya, BRAUN,
Christoph, KHAN, Sheraz,
LEONARDELLI, Eliza,
GRANT, Ellen, OKADA,
Yoshio, PAPADELIS, Christos

P3-109

MOTOR-RELATED BETA
OSCILLATORY RESPONSES
LINEARLY INCREASE WITH
THE TIME OF DAY
WILSON, Tony W,
HEINRICHS-GRAHAM,
Elizabeth, BECKER,
Katherine M

Poster Session 4:

Wednesday August 27th,
12:00pm – 2:00 pm

MCG

P4-001

FETAL MCG SIGNAL
PROCESSING FOR
MULTICHANNEL DATA FROM
AN ARRAY OF OPTI-CALLY-
PUMPED MAGNETOMETERS
SANDER-THÖMMES,
Tilmann, ALEM, O,
ESWARAN, Hari,
STEINHOFF, U, KITCHING,
J, TRAHMS, L, KNAPPE, S

P4-002

THE ROLE OF
MAGNETOCARDIOGRAPHY IN
THE CLINICAL ALGORITHM OF
CHRONIC CAD DIAGNOSIS
CHAIKOVSKY, Ilyia

P4-003

DETECTION OF VENTRICULAR
TORSION STUDIED WITH
MCG CURRENT SOURCE
RECONSTRUCTION
CHEN, Mengpei, JIANG,
Shiqin, BING, Lu, VAN
LEEJWEN, Peter,
GRÖNEMEYER, Dietrich

P4-004

COMPONENT SELECT
METHOD IN NOISE
REJECTION METHOD USING
INDEPENDENT COMPONENT
ANALYSIS FOR MCGS
IWAI, Morio, KOBAYASHI,
Koichiro, BUI, Francis,
YOSHIZAWA, Masahito,
UCHIKAWA, Yoshinori

P4-005

A FOUR-CHANNEL HTC RF
SQUID TO ANALYZE THE
CURRENT PROPAGATION OF
THE CARDIAC MAGNETIC
FIELD
ZHANG, Chen, TANG,
Fakuan, MA, Ping, GAN,
Zizhao

P4-006

OPTIMAL CONFIGURATION OF
CIRCULAR MARKER COIL FOR
MAGNETOCARDIOGRAPHIC
IMAGE COMPOSITION
OGATA, Kuniomi, SANO,
Yuko, SEKIHARA, Kensuke,
AONUMA, Kazutaka,
KANDORI, Akihiko

P4-007

FETAL
MAGNETOCARDIOGRAPHY
WITH ATOMIC
MAGNETOMETER ARRAY
SULAI, Ibrahim, DELAND,
Zack, WAHL, Colin, WAKAI,
Ronald, WALKER, Thad

P4-008

MAGNETOCARDIOGRAPHY
CAPABILITIES IN
MYOCARDIUM INJURIES
DETECTION
SOSNYTSKY, Volodymyr,
CHAIKOVSKY, Ilyia,
SOSNYTSKA, Taisia,
MIASNIKOV, Georgy,
SAPOGNIKOV, Artur

**Methods & Modeling II:
Source Localization
Approaches, Simulations,
Models, Multiple Sources, etc.**

P4-009

CHARACTERIZING PROPERTIES OF MEG AND EEG SIGNALS GENERATED BY EXTENDED SOURCES
AHLFORS, Seppo, HAN, Jooman

P4-010

ASSESSMENT OF SUBCORTICAL SOURCE LOCALIZATION USING DEEP BRAIN ACTIVITY IMAGING MODEL WITH MINIMUM NORM OPERATORS: A MEG STUDY
ATTAL, Yohan, FASOULA, Angie, SCHWARTZ, Denis

P4-011

SIMULTANEOUS RECORDING OF INTRACEREBRAL STEREOTAXIC EEG, SCALP EEG AND MEG IN EPILEPSY
BADIER, Jean-Michel, DUBARRY, Anne-Sophie, GAVARET, Martine, TRÉBUCHON-DA FONSECA, Agnès, CARRON, Romain, RÉGIS, Jean, CHAUVEL, Patrick, BARTOLOMEI, Fabrice, BÉNAR, Christian George

P4-012

WHERE IS THE HEAD? ACCOUNTING FOR HEAD LOCATION UNCERTAINTY INSIDE THE MEG HELMET
LOPEZ, Jose David, TROEBINGER, Luzia, PENNY, William, BARNES, Gareth

P4-013

USING DIFFUSION MRI INFORMATION IN THE MAXIMUM ENTROPY ON MEAN FRAMEWORK TO SOLVE MEG/EEG INVERSE PROBLEM
BELAOUCHA, Brahim, PAPADOPOULO, Théodore, LINA, Jean Marc, CLERC, Maureen, PHILIPPE, Anne-Charlotte

P4-014

BAYESIAN SOURCE MODELING OF MEG DATA FOR CEREBELLAR ACTIVITY ASSESSMENT
CAMPI, Cristina, SORRENTINO, Alberto, PIANA, Michele, BRAUN, Christoph

P4-015

COBRA: A NEW APPROACH FOR MRI-CONSTRAINED SOURCE RECONSTRUCTION USING BEAMFORMING TECHNIQUES
CHEYNE, Douglas, BOSTAN, Stefan, JOBST, Cecilia, LERCH, Jason

P4-016 **HOT TOPIC**

USING MYELIN DENSITY MAPS TO INFORM M/EEG SOURCE RECONSTRUCTION
HELBLING, Saskia

P4-017

A BEAMFORMER FOR SOURCE LOCALIZATION IN ELECTROCORTICOGRAPHY
CLERC, Maureen, PASCARELLA, Annalisa, TODARO, Chiara, SERRE, Thomas, PIANA, Michele

P4-018

INFLUENCE OF THE HEAD MODEL ON EEG AND MEG SOURCE CONNECTIVITY ANALYSIS
CHO, Jae-Hyun, VORWERK, Johannes, WOLTERS, Carsten, KNÖSCHE, Thomas

P4-019

THETA-MEDIATED OSCILLATORY NETWORKS ACTIVATED BY SPATIAL MEMORY AND NAVIGATION REVEALED WITH P-EPISEDE DETECTION IN COMBINATION WITH MEG SOURCE RECONSTRUCTION
CRESPO-GARCIA, Maite, RAMPP, Stefan, ZEILLER, Monika, KREISELMAYER, Gernot, HAMER, Hajo, DALAL, Sarang S.

P4-020

ANALYSIS OF VISUAL AND AUDITORY CONGRUENCY TESTS USING MIXED NORM EEG SOURCE RECONSTRUCTION WITH PERTURBED SOURCE MODELS
CREVECOEUR, Guillaume, JANSSENS, Clio, VERGUTS, Tom, POURTOIS, Gilles

P4-021

MODELING THE ACTIVE NEURODYNAMICS OF TMS USING REALISTIC NEURAL TRACTS
DE GEETER, Nele, CREVECOEUR, Guillaume, ILMONIEMI, Risto, DUPRÉ, Luc

P4-022

REAL-TIME SOURCE LOCALIZATION USING MINIMUM NORM ESTIMATION AND REGION OF INTEREST CLUSTERING
DINH, Christoph, STROHMEIER, Daniel, ESCH, Lorenz, BAUMGARTEN, Daniel, HÄMÄLÄINEN, Matti S., HAUEISEN, Jens

P4-023

ACCURACY OF A SOURCE ESTIMATION BASED ON MODIFIED L1-NORM MINIMIZATION
FUJIMAKI, Norio, TERAZONO, Yasushi, IHARA, Aya, HAYAKAWA, Tomoe, MATANI, Ayumu

P4-024

MEG SOURCE RECONSTRUCTION WITH IDENTIFYING DIRECTED SOURCE INTERACTIONS ON STRUCTURAL BRAIN NETWORKS
FUKUSHIMA, Makoto, YAMASHITA, Okito, KNÖSCHE, Thomas, SATO, Masa-aki

P4-025

REWEIGHTED MIXED-NORM ESTIMATES FOR SPATIO-TEMPORAL MEG/EEG SOURCE RECONSTRUCTION
STROHMEIER, Daniel, HAUEISEN, Jens, GRAMFORT, Alexandre

P4-026

RECONSTRUCTION OF NON-STATIONARY BRAIN ACTIVITY USING SPACE-TIME-FREQUENCY DICTIONARIES
CASTAÑO CANDAMIL, Juan Sebastián, HÖHNE, Johannes, CASTELLANOS DOMÍNGUEZ, Germán, HAUF, Stefan

P4-027

ANALYSIS OF SPATIAL RESOLUTION AND CROSSTALK OF DIFFERENT DISTRIBUTED SOURCE LOCALIZATION METHODS IN EEG AND MEG
HEDRICH, Tanguy, LINA, Jean-Marc, KOBAYASHI, Eliane, GROVA, Christophe

P4-028

MEG SOURCE IMAGING METHOD USING FAST L1 MINIMUM-NORM AND ITS APPLICATIONS TO SIGNALS WITH BRAIN NOISE AND HUMAN RESTING-STATE SOURCE MAGNITUDE IMAGES
HUANG, Mingxiong, ROBB, Ashley, ANGELES, AnneMarie, NICHOLS, Sharon, BAKER, Dewleen, SONG, Tao, HARRINGTON, Deborah, CANIVE, Jose, EDGAR, James, CHEN, Yu-Han, Ji, Zhengwei, LEVY, Michael, MCLAY, Robert, DRAKE, Angela, THEILMANN, Rebecca, DIWAKAR, Mithun, LEE, Roland R.

P4-029

TIME SHIFT BETWEEN THE INTERICTAL SPIKES IN SIMULTANEOUS EEG AND MEG RECORDINGS REFLECTS DIFFERENT EPILEPTOGENIC GENERATORS
HUNOLD, Alexander, HAUEISEN, Jens, AHTAM, Banu, DOSHI, Chiran, GRANT, P. Ellen, OKADA, Yoshio, PAPADELIS, Christos

P4-030

MEASUREMENTS OF COMPLEXITY AND OSCILLATIONS UNDER DIFFERENT COGNITIVE LOADS
HUNT, Ben, ROBSON, Siân, HALL, Emma, ZUMER, Johanna, SINGH, Krish, MORRIS, Peter, BROOKES, Matthew

P4-089

BIOMAGNETIC RESONANCE IMAGING
KIM, Kiwoong

P4-090

OPTIMIZATION OF MINIMUM-NORM ESTIMATE (MNE) OF CORTICAL SOURCES USING A SENSOR-SPACE TASK-RELATED INFORMATIONAL CONTENT METRICS FOR NOISE MODELLING
LABYT, Etienne, AKSENOVA, Tetiana, BERGER, François, DURAND, Pierre

P4-091

ROTATIONAL INVARIANCE AND SOURCE ORIENTATION IN LCMV VECTOR BEAMFORMER
LALANCETTE, Marc

P4-092

SENSITIVITY OF MEG/EEG SOURCE RECONSTRUCTION TO CONDUCTIVITIES OF COMPACT AND CANCELLOUS BONE IN THE PRESENCE OF SKULL DEFECTS
LAU, Stephan, GÜLLMAR, Daniel, FLEMMING, Lars, HAUEISEN, Jens

**Methods & Modeling II:
Source Localization
Approaches, Simulations,
Models, Multiple Sources, etc.**

continued

P4-093

**FLEXIBLE HEAD-CASTS FOR
HIGH SPATIAL PRECISION
MEG**

MEYER, Sofie S, LIM, Mark, O'NEILL, George, TROEBINGER, Luzia, BRADBURY, David, BESTMANN, Sven, BROOKES, Matt, BARNES, Gareth

P4-094

**CORTICAL AUDITORY
ACTIVITY IN PEOPLE WITH
COCHLEAR IMPLANTS: A
PRELIMINARY MEG STUDY.**
MONITTOLO, Gianpiero, LITHARI, Chrysoula, AGARWAL, Nivedita, FRAU, Giuseppenicolo, WEISZ, Nathan

P4-095

**APPLICATION OF MULTIPLE
EQUIVALENT CURRENT
DIPOLE MODELING FOR ANA-
LYZING MAGNETOENCEPHA-
LOGRAPHY ACTIVITIES IN A
PATIENT WITH AN ATYPICAL
FORM OF BENIGN FOCAL
EPILEPSY OF CHILDHOOD**
MURAKAMI, Hiroatsu

P4-096

**DYNAMIC STATISTICAL PARA-
METRIC MAPPING (DSPM) FOR
FOCAL CORTICAL DYSPLASIA
(FCD) AT BOTTOM OF SULCUS**
NAKAJIMA, Midori, DOESBURG, Sam, WIDJAJA, Elysa, SATO, Yosuke, BOELMAN, Cyrus, BABA, Shiro, SAKUMA, Satoru, OKANARI, Kazuo, OCHI, Ayako, OTSUBO, Hiroshi

P4-097

**OPTIMISING BEAMFORMER
REGIONS OF INTEREST
ANALYSIS**
OSWAL, Ashwini, LITVAK, Vladimir, BROWN, Peter, WOOLRICH, Mark

P4-098

**SOURCE RECONSTRUCTION
OF SLOW AND FAST
SLEEP SPINDLES USING A
BEAMFORMER APPROACH –
A MEG/EEG STUDY**
SCHABUS, Manuel, LECHINGER, Julia, JIANG, Haiteng, HEIB, Dominik, WISLOWSKA, Malgorzata, JENSEN, Ole, TALAMINI, Lucia

P4-099

**INFORMATION CONTENT
IN MEG RECORDINGS:
COMPARING LOW- AND HIGH-
TC SQUID ARRAYS**
SCHNEIDERMAN, Justin

P4-100

**HYPER-PARAMETER TYING:
A NOVEL METHOD OF
CONTROLLING THE SPARSITY
IN SPARSE BAYES SOURCE
IMAGING (CHAMPAGNE)
ALGORITHM**
SEKIHARA, Kensuke, NAGARAJAN, Srikanth

P4-101

**BAYESIAN MULTI-DIPOLE
ESTIMATION IN TIME AND
FREQUENCY WITH MONTE
CARLO SAMPLERS**
SORRENTINO, Alberto, SOMMARIVA, Sara, VIVALDI, Valentina, PIANA, Michele, ROTONDI, Fabio, PANZICA, Ferruccio, VISANI, Elisa, DURAN, Dunja, ARAMINI, Riccardo, LURIA, Gianvittorio, FRANCESCHETTI, Silvana

P4-102

**A COMPUTATIONALLY LIGHT
FOUR-SHELL BOUNDARY-
ELEMENT FORWARD MODEL
FOR MEG**
STENROOS, Matti, NUMMENMAA, Aapo

P4-103

**A NOVEL METHOD FOR
REMOVAL OF DEEP BRAIN
STIMULATION ARTIFACT
FROM ELECTROENCEPHA-
LOGRAPHY**
SUN, Yinming, FARZAN, Faranak, GARCIA DOMINGUEZ, Luis, BARR, Mera, GIACOBBE, Peter, WONG, Willy, DASKALAKIS, Zafiris

P4-104

**EXTRACTING SPATIOTEMPO-
RAL PATTERNS FROM SPON-
TANEOUS MEG DATA**
TAKEDA, Yusuke, SATO, Masa-aki

P4-105

**TRANSCRANIAL MAGNETIC
STIMULATION WITH
ADJUSTABLE PENETRATION
DEPTH USING MULTIPLE
COAXIAL CIRCULAR COILS**
LU, Mai, UENO, Shoogo

P4-106

**MEG/EEG MAP TOPOGRAPHY
AND SOURCE DISTRIBUTION
ANALYSIS ON THE EPOCH
LEVEL BY NON-PARAMETRIC
RANDOMIZATION TESTS**
WAGNER, Michael, TECH, Reyko, FUCHS, Manfred, PONTON, Curtis

P4-107

**MAXIMIZING THE
INDEPENDENCE OF MULTIPLE
ROI ANALYSIS WITH CROIS**
WAKEMAN, Daniel G., HENSON, Richard N.

P4-108

**"MAGNETIC FIELD
CAMERA" FOR RECORDING
SPATIALLY-RESOLVED
MAGNETORELAXATION (MRX)
OF SUPERPARAMAGNETIC
IRON OXIDE NANOPARTICLES
(SPIONS)**
WEIS, Antoine, COLOMBO, Simone, DOLGOVSKIY, Vladimir, LEBEDEV, Victor

P4-109

**INFLUENCE OF REALISTIC
HEAD MODELING ON THE EEG
FORWARD SOLUTION**
VORWERK, Johannes, CHO, Jae-Hyun, OOSTENVELD, Robert, RAMPP, Stefan, HAMER, Hajo, KNÖSCHE, Thomas, WOLTERS, Carsten

P4-110

**USING SPARSE
CLASSIFICATION IN SOURCE
SPACE TO REVEAL PATTERNS
OF DIFFERENT ACTIVATION
DURING CATEGORY
PERCEPTION IN THE MEG**
HARTMANN, Thomas, OLIVETTI, Emanuele, WEISZ, Nathan

P4-111

**MOMENTARY-UNCORRELATED
COMPONENT ANALYSIS,
MUCA, FOR BLIND SOURCE
SEPARATION OF EVOKED EEG/
MEG DATA**
METSOMAA, Johanna, SARVAS, Jukka, ILMONIEMI, Risto J.

P4-112 HOT TOPIC

**NOVEL METHODS FOR
IMPROVING SOURCE
LOCALIZATION USING HYBRID
ULTRA-LOW-FIELD MRI AND
MEG**
ZEVENHOVEN, Koos C J, MÄKINEN, Antti, TERVO, Aino, DABEK, Juhani, ILMONIEMI, Risto J

P4-113

**MAGNETRODES PROJECT:
SENSING THE MAGNETIC
FIELD OF NEURONS AT LOCAL
SCALE**
PANNETIER-LECOEUR, Myriam, DESTEXHE, Alain, BAL, Thierry, CARDOSO DE FREITAS, Susana, FRIES, Pascal, PARKKONEN, Lauri, AMARAL, José Pedro, CARUSO, Laure, GUITARD, Pierre André

Multimodal - MEG & MRI

P4-031

**EXAMINING THE EFFECTS
OF WITHIN-SESSION MOTOR
LEARNING ON BRAIN ACTIVITY
OBTAINED USING MEG**
CHOI, Ashley, BISHOP, Ronald, BARDOUILLE, Timothy, BOE, Shaun

P4-032 HOT TOPIC

**HYPERSCANNING MEG FOR UN-
DERSTANDING MOTHER-CHILD
CEREBRAL INTERACTIONS**
HIRATA, Masayuki, IKEDA, Takashi, KIKUCHI, Mitsuru, KIMURA, Tomoya, HIRAIISHI, Hirotooshi, YOSHIMURA, Yuko, ASADA, Minoru

P4-033

**THE ROLES OF NEURAL PHASE-
RESETTING AND WHITE MATTER
HEALTH IN INFORMATION PRO-
CESSING SPEEDS OF HEALTHY
CHILDREN AND CHILDREN
TREATED FOR BRAIN TUMOURS**
DOCKSTADER, Colleen, BOUFFET, Eric, LAUGHLIN, Suzanne, SKOCIC, Jovanka, MABBOTT, Donald

P4-034

**SIMULTANEOUS RECORDING
OF MEG, EEG AND INTRACE-
REBRAL EEG DURING VISUAL
STIMULATION: FROM FEASIBILI-
TY TO SINGLE-TRIAL ANALYSIS**
DUBARRY, Anne-Sophie, BADIER, Jean-Michel, TRÉBUCHON-DA FONSECA, Agnès, GAVARET, Martine, CARRON, Romain, BARTOLOMEI, Fabrice, LIEGEOIS-CHAUVEL, Catherine, RÉGIS, Jean, CHAUVEL, Patrick, ALARIO, F-Xavier, BÉNAT, Christian

P4-035

**IMAGING AFFECTIVE
PROSODY IN 5-DIMENSIONS**
LEITMAN, David I., EDGAR, J. Christopher, BLOY, Luke, FISK, Charlie, LUDWIG, Krystal, ROBERTS, Timothy P.L.

Multimodal - MEG & MRI

continued

P4-036

INCREASED ALPHA AND CONCOMITANT FUNCTIONAL DECOUPLING OF IPL PRE-DISPOSES PERCEPTION OF AUDIOTACTILE SIMULTANEITY
LEONARDELLI, Elisa, BRAUN, Christoph, WEISZ, Nathan, ZAMPINI, Massimiliano

P4-037

THE SENSITIVITY OF MEG AND EEG TO CORTICAL ANATOMY
LIN, Jo-Fu, CHOU, Chih-Che, LIN, Fa-Hsuan

P4-038

RESTING STATE BRAIN CORTICAL ACTIVATION CHANGES IN PATIENTS WITH MIGRAINE: A MEG STUDY
LIU, Hongxing

P4-039

INTEGRATION OF FMRI AND MEG FOR OPTIMIZED SPATIAL SENSITIVITY TO NEURAL ACTIVITY
MCWHINNEY, Sean, BARDOUILLE, Timothy, D'ARCY, Ryan, NEWMAN, Aaron

P4-040

THE RELATIONSHIP BETWEEN NEUROTRANSMITTERS AND NEURAL OSCILLATION DURING WORKING MEMORY TASK: A COMBINED MAGNETIC RESONANCE SPECTROSCOPY AND MAGNETOENCEPHALOGRAPHY STUDY

MOTEGI, Tomokazu, TAKEI, Yuichi, FUJIHARA, Kazuyuki, SUZUKI, Yusuke, TAGAWA, Minami, YAMAGUCHI, Miho, UJITA, Koichi, SAKAI, Yuki, NARUMOTO, Jin, NEAR, Jamie, NARITA, Kosuke, FUKUDA, Masato

P4-041

DIAGNOSTIC APPLICATION OF MAGNETOENCEPHALOGRAPHY FOR DETECTION OF EPILEPTOGENIC CORTICAL LESION IN MRI STUDY
OTSUKA, Kosuke, NAKAJIMA, Midori, ITO, Tomoshiro, YAGYU, Kazuyori, ASAHINA, Naoko, FUJIMA, Noriyuki, KUDO, Kohsuke, TERA, Satoshi, SHIRAI, Hideaki

P4-042

EXPANDING THE LIMITS OF IMAGING TECHNOLOGIES: A COMBINED MEG AND FMRI INVESTIGATION OF HUMAN OBJECT REPRESENTATIONS
CICHY, Radoslaw, PANTAZIS, Dimitrios, OLIVA, Aude

P4-043

PROCESSING PIPELINE FOR FUNCTIONAL LOCALIZATION WITH MULTIMODAL DATA
ROHU, Victor

P4-044

EFFECT OF CONDUCTIVITY INHOMOGENEITIES ON MAGNETIC FIELDS DETECTED BY MEG AND NEURONAL CURRENT MRI
SUNDARAM, Padmavathi, NUMMENMAA, Aapo, WELLS, William, OKADA, Yoshio

P4-045

THE RELATIONSHIP BETWEEN NEUROTRANSMITTERS AND NEURAL OSCILLATION DURING RESTING STATE: A COMBINED MAGNETIC RESONANCE SPECTROSCOPY AND MAGNETOENCEPHALOGRAPHY STUDY
TAGAWA, Minami, TAKEI, Yuichi, FUJIHARA, Kazuyuki, SUZUKI, Yusuke, UJITA, Koichi, SAKAI, Yuki, KASAGI, Masato, MOTEGI, Tomokazu, YAMAGUCHI, Miho, NARUMOTO, Jin, NEAR, Jamie, NARITA, Kosuke, FUKUDA, Masato

P4-046

EVENT-RELATED THETA POWER IS ATTENUATED BY ALCOHOL INTOXICATION AS A FUNCTION OF RESPONSE CONFLICT DIFFICULTY
ROSEN, Burke, KOVACEVIC, Sanja, MARINKOVIC, Ksenija

Ongoing Activity & Resting State

P4-047

OSCILLATORY ALTERATIONS OF RESTING-STATE BRAIN NETWORKS IN CHILDREN BORN VERY PRETERM
CHEUNG, Teresa P L, LUCKHOO, Henry, DOESBURG, Sam M, WOOLRICH, Mark, SYNNE, Anne, GRUNAU, Ruth E

P4-048

CHARACTERIZATION OF PATHOLOGICAL PERILESIONAL ACTIVITY IN STROKE USING MULTISCALE ENTROPY
CHU, Ronald, KIELAR, Aneta, DESCHAMPS, Tiffany, KHATAMIAN, Yasha, CHEN, Jean, BRAUN, Alan, MELTZER, Jed

P4-049

PRIMARY MOTOR CORTX MAPPING IN BRAIN-LESIONED PATIENTS USING MEG RESTING-STATE
COQUELET, Nicolas, WENS, Vincent, BOURGUIGNON, Mathieu, CARRETTE, Evelien, OP DE BEEK, Marc, MARTY, Brice, VAN BOGAERT, Patrick, GOLDMAN, Serge, DE TIÈGE, Xavier

P4-050

UBIQUITOUS LOW-FREQUENCY PHASE DURING REST AND VISUAL STIMULATION COUPLES TO EVOKED GAMMA RESPONSE
FLORIN, Esther, BAILLET, Sylvain

P4-051

EEG CORRELATES OF COGNITION DURING THE RESTING STATE
HARDSTONE, Richard, DIAZ, B. Alexander, POIL, Simon-Shlomo, MANSVELDER, Huibert D., LINKENKAER-HANSEN, Klaus

P4-052

TRANSIENT SUPPRESSION OF GAMMA POWER IN THE DEFAULT-MODE AND VENTRAL ATTENTION NETWORK IN AN EMOTION DETECTION TASK
BAYLE, Dimitri, OSSANDON, Tomas, COMBRISSE, Etienne, HENAFF, Marie-anne, JERBI, Karim

P4-053

THE ELECTRORETINOGRAM EXHIBITS EYES-CLOSED ALPHA OSCILLATIONS THAT COUPLE WITH VISUAL CORTX
KAISER, Mathis, POPOV, Tzvetan, DALAL, Sarang S.

P4-054

EFFECT OF BDNF VAL66MET POLYMORPHISM ON LOW-ALPHA/GAMMA COUPLING OF SPONTANEOUS OSCILLATIONS IN PRIMARY DYSMENORRHEA
LEE, Pin-Shiuan, CHEN, Yong-Sheng, TU, Cheng-Hao, CHAO, Hsiang-Tai, LIN, Ming-Wei, HSIEH, Jen-Chuen, CHEN, Li-Fen

P4-055

SOURCES ANALYSIS OF RESTING STATE FUNCTIONAL CONNECTIVITY IN HEALTHY AGING AND MILD COGNITIVE IMPAIRMENT: INFLUENCE OF APOLIPOPROTEIN E POLYMORPHISM
CUESTA, Pablo, GARCÉS, Pilar, P. CASTELLANOS, Nazareth, LÓPEZ, María Eugenia, AURTENETXE, Sara, BAJO, Ricardo, PINEDA, José, BRUÑA, Ricardo, GARCÍA MARÍN, Antonio, DELGADO, Marisa, BARABASH, Ana, ANCIÑ, Inés, CABRANES, José Antonio, SANCHO, Miguel, MARCOS, Alberto, NAKAMURA, Akinori, MAESTU, Fernando

P4-056

THE SPATIOTEMPORAL OSCILLATORY EFFECTS OF SUBANAESTHETIC KETAMINE INFUSION IN MAN: A PHARMACO-MEG STUDY
MUTHUKUMARASWAMY, Suresh, SHAW, Alexander, JACKSON, Laura, SINGH, Krish, HALL, Judith, SAXENA, Neeraj

P4-057

ABNORMALITIES IN RESTING STATE CONNECTIVITY IN BIPOLAR DISORDER
NUGENT, Allison, ROBINSON, Stephen, COPPOLA, Richard, ZARATE, Carlos, FUREY, Maura

P4-058

RECONSTRUCTING RAPID DYNAMICS IN ENDOGENOUS BRAIN NETWORKS REVEALS FREQUENCY-SPECIFIC DIRECTIONAL INTERACTIONS
QUINN, Andrew, HYMER, Mark, JOHNSON, Sam, CORNELISSEN, Piers, GREEN, Gary

P4-059

REPEATABILITY OF OSCILLATORY RESTING STATE NETWORKS IN HEALTHY INDIVIDUALS
ROUTLEY, Bethany C., KOELEWIJN, Loes, BROOKES, Matthew J., MUTHUKUMARASWAMY, Suresh D., SINGH, Krish D.

P4-060

A REAL-TIME IMAGING NEUROFEEDBACK IN MEG
SAMIEE, Soheila, FLORIN, Esther, BOCK, Elizabeth, BAILLET, Sylvain

Ongoing Activity & Resting State

continued

P4-061

MEG-DTI IMAGING OF CONNECTIVITY IN CHILDREN BORN VERY PRETERM: CONVERGING STRUCTURAL AND FUNCTIONAL NETWORK ALTERATIONS
YE, Annette X., MORGAN, Benjamin R., AUCCOIN-POWER, Michelle, TAYLOR, Margot J., DOESBURG, Sam M.

P4-062

NETWORK DYNAMICS UNDERLYING VISUOSPATIAL ATTENTION CONTROL
DOESBURG, Sam, BEDO, Nicolas, WARD, Lawrence

P4-063

FAST TRANSIENT NETWORKS IN SPONTANEOUS BRAIN ACTIVITY
BAKER, Adam, BROOKES, Matthew, REZEK, lead, SMITH, Steve, BEHRENS, Tim, PROBERT SMITH, Penny, WOOLRICH, Mark

Visual Processing

P4-064 **HOT TOPIC**

RETINAL HIGH-FREQUENCY OSCILLATIONS DRIVE CORRESPONDING RHYTHMS IN CONTRALATERAL VISUAL CORTEX
DALAL, Sarang, KAISER, Mathis, WESTNER, Britta, POPOV, Tzvetan

P4-065

DO MICRO-SACCADIC EYE MOVEMENTS MODULATE VISUALLY INDUCED GAMMA OSCILLATIONS? AN MEG STUDY USING HIGH-SPEED EYE TRACKING
BOSTAN, Stefan R., JOBST, Cecilia, GOLTZ, Herb, WONG, Agnes, CHEYNE, Douglas

P4-066

MONOCULAR LUMINANCE REDUCTION DECREASES DICHOTIC PROCESSING IN PRIMARY VISUAL CORTEX
CHADNOVA, Eva, REYNAUD, Alexandre, CLAVAGNIER, Simon, BAKER, Daniel, HESS, Robert F., BAILLET, Sylvain

P4-067

MEG CORRELATES OF SACCADIC COMPETITION
BOMPAS, Aline, MATTOU, Jeremie

P4-068

INVESTIGATING CROSSMODAL PLASTICITY IN BLIND INDIVIDUALS WITH MAGNETOENCEPHALOGRAPHY
DOUALOT, Audrey, WEISZ, Nathan, KHAYAT, Paul, LEPORE, Franco, COLLIGNON, Olivier

P4-069

OCCIPITAL BETA-BAND OSCILLATIONS REFLECT TARGET LOCATION AT MOVEMENT ONSET DURING A DELAYED POINTING TASK
FERRARI, Paul, CRESSMAN, Erin, BENITES, Daniela, CHEYNE, Douglas, CRAWFORD, Douglas

P4-070

FUSIFORM GYRUS ACTIVATION FOR GAZE CONTACT: AN MEG/EEG ANALYSIS
BURRA, Nicolas, GEORGE, Nathalie

P4-071

VISUAL EVOKED MAGNETIC FIELDS ELICITED BY CHECKERBOARD PATTERN-ONSET STIMULATION
HATANAKA, Keisaku, HASHIUE, Naofumi, HASHIZUME, Akira, KURISU, Kaoru

P4-072

NEURAL BASIS OF READING JAPANESE KANJI AND KANA IN THE LEFT FUSIFORM GYRUS: AN MEG STUDY
INAMIZU, Saeko, YAMASAKI, Takao, HORIE, Shizuka, HIRONAGA, Naruhito, KIRA, Jun-ichi, TOBIMATSU, Shozo

P4-073

READOUT OF DYNAMIC ACTION SEQUENCES WITH MEG DECODING
ISIK, Leyla, TACCHETTI, Andrea, POGGIO, Tomaso

P4-074

INTERACTION BETWEEN THE DORSAL AND VENTRAL VISUAL SUBSYSTEMS WHILE PERCEIVING 3-D OBJECT SHAPE FROM 2-D MOTION: AN MEG-FMRI STUDY
IWAKI, Sunao, BONMASSAR, Giorgio, BELLIVEAU, John W

P4-075

TIMING OF CORTICAL ACTIVATION IN GRAPHEME-COLOUR SYNAESTHETES REVEALED THROUGH INDEPENDENT COMPONENT ANALYSIS IN THE MEG
KUSNIR, Flor, THUT, Gregor, MICHALAREAS, Giorgos, GROSS, Joachim

P4-076

NEURAL OSCILLATORY DYNAMICS UNDERLYING TEMPORAL RECALIBRATION DURING MULTISENSORY INTEGRATION
LENNERT, Therese, BAILLET, Sylvain

P4-077

SPATIOTEMPORAL ANALYSIS OF HUMAN FACE INDIVIDUATION
LI, Yuanning, BRUNET, Nicolas, KESSLER, Elyanna, GHUMAN, Avniel

P4-078

TEMPORAL DYNAMICS IN FEAR CONDITIONING
LITHARI, Chrysa, MORATTI, Stephan, WEISZ, Nathan

P4-079

AROUSAL AND VALENCE INFLUENCE ON SPATIOTEMPORAL PATTERNS OF BRAIN ACTIVITY ELICITED BY VISUAL AFFECTIVE STIMULI
STYLIADIS, Charis, IOANNIDES, Andreas A., BAMIDIS, Panagiotis D., PAPADELIS, Christos

P4-080

PREDICTIVE AMBIGUITY OF PERCEPTION IN THE PRE-STIMULUS WINDOW
PEATFIELD, Nicholas, MÜLLER, Nadia, RUHNAU, Philipp, WEISZ, Nathan

P4-081

UNIDIRECTIONAL DYNAMIC CONNECTIVITY FROM SUPERIOR PARIETAL LOBULE TO FRONTAL EYE FIELD IMPLEMENTS SPATIAL ATTENTION SHIFT IN A COMPLEX VISUAL MOTION SEARCH TASK
RANA, Kunjan D., HAMALAINEN, Matti S., VAINA, Lucia M.

P4-082

MAPPING THE CONTRAST TUNING FUNCTION OF THE VISUAL GAMMA RESPONSE USING A CONTINUOUSLY-VARYING STIMULUS
PERRY, Gavin, RANDLE, James, KOELEWIJN, Loes, ROUTLEY, Bethany, HAMANDI, Khalid, SINGH, Krish

P4-083

SIMULTANEOUS MEG-INTRACRANIAL EEG REVEALS THALAMOCORTICAL SYNCHRONIZATION DURING HUMAN VISUAL PERCEPTION
STAUDIGL, Tobias, HANSLMAYR, Simon, VOGES, Jürgen, HEINZE, Hans-Jochen, ZAEHLE, Tino

P4-084

DECODING OBSERVED ACTIONS FROM BRAIN OSCILLATIONS: A MULTIVARIATE PATTERN MEG STUDY
TUCCIARELLI, Raffaele, TURELLA, Luca, OOSTERHOF, Nikolaas N., WEISZ, Nathan, LINGNAU, Angelika

P4-085

NEUROMAGNETIC CORRELATES OF ACTION PROBABILITIES AT DIFFERENT HIERARCHICAL LEVELS DURING ACTION OBSERVATION
VAN PELT, Stan, HEIL, Lieke, ONDOBAKA, Sasha, KWISTHOUT, Johan, VAN ROOIJ, Iris, BEKKERING, Harold

P4-086

FEATURE CODING IN FACIAL EMOTIONS FROM MEG DATA
VAN RIJSBERGEN, Nicola, INCE, Robin, GROSS, Joachim, PANZERI, Stephano, SCHYNS, Philippe

P4-087

DOES TRANSCRANIAL MAGNETIC STIMULATION OF VISUAL CORTEX AFFECT THE RETINA?
WESTNER, Britta, KAISER, Mathis, WALDHAUSER, Gerd T., DALAL, Sarang S.

P4-088

VISUAL STIMULI EVOKE RETINAL RESPONSES DETECTABLE WITH MEG
WONG, Daniel, WESTNER, Britta, KAISER, Mathis, POPOV, Tzvetan, DALAL, Sarang

A

ABE, Jun-ichi, P1-034
 ABE, Junya, P2-038
 ABELES, Moshe, P1-027,
 P1-029, P1-031
 ABLIN, Jacob, P3-094
 ABU EDI, Nadia, P3-023
 ADACHI, Yoshiaki, P2-038, P2-049
 AEBISCHER, Philipp, P2-022
 AGARWAL, Nivedita, P4-094
 AHLFORS, Seppo, P1-081, P3-098,
 P4-009
 AHMAD, Faysal, P3-031
 AHTAM, Banu, P2-056, P2-078,
 P4-029, ISACM S2,
 AINE, Cheryl, P3-099
 AIRAKSINEN, Katja, P2-063
 AKSENOVA, Tetiana, P4-090
 ALARIO, Francois-Xavier, P3-004,
 P4-034
 ALBERA, Laurent, P2-080
 ALCOUFFE, François, P2-032
 ALEM, O, P4-001
 ALMUBARAK, Salah, P3-035
 ALOI, Joseph, P2-069
 ALONZO, Jesse, P2-030
 AMARAL, José Pedro, P4-113
 ANCÍN, Inés, P4-055,
 ANDERSON, Christopher, P3-010,
 ANGELES, AnneMarie, P4-028,
 ANNETT, Robert, P1-085,
 AONUMA, Kazutaka, P4-006,
 AOYAMA, Atsushi, P1-023,
 ARAKI, Toshihiko, P3-001,
 ARAMINI, Riccardo, P4-101,
 ARD, Tyler, P3-089,
 ASADA, Minoru, P4-032,
 ASAHINA, Naoko, P4-041,
 ASSAD, Basal, P1-064,
 ATTAL, Yohan, P3-054, P4-010,
 AUBOIROUX, Vincent, P1-066,
 P2-079,
 AUCOIN-POWER, Michelle,
 P2-016, P4-061,
 AUKSZTULEWICZ, Ryszard,
 P3-033,
 AURTENETXE, Sara, P4-055,
 AVESANI, Paolo, P1-095,

AYDIN, Ümit, P2-067,
 AYOUB, Kareem, P1-089,
 AZIZ, Qasim, P3-102,

B

BABA, Shiro, P4-096,
 BADIER, Jean-Michel, P1-005,
 P2-070, P3-034, P3-041,
 P4-011, P4-034,
 BAFFA, Oswaldo, P1-052, P2-092,
 BAGIC, Anto, ISACM S1,
 BAHRAMISHARIF, Ali, S14,
 BAILLET, Sylvain, P2-001, P3-060,
 P3-066, P4-050, P4-060,
 P4-066, P4-076, S9, S14, S19,
 BAJÓ, Ricardo, P4-055,
 BAKER, Adam, P3-031, P4-063, S4,
 BAKER, Daniel, P4-066,
 BAKER, Dewleen, P4-028,
 BAKER, Tanya, S16,
 BAL, Thierry, P2-044, P4-113,
 BALDAUF, Daniel, P3-032,
 BAMIDIS, Panagiotis D., P4-079,
 BANGEL, Katrin, P2-077,
 BARABASH, Ana, P4-055,
 BARDOUILLE, Timothy, P1-055,
 P1-061, P1-093, P2-057,
 P2-089, P2-091, P3-038,
 P4-031, P4-039, S9,
 BARKLEY, Gregory, P1-064,
 BARNES, Gareth, P1-060, P3-055,
 P3-058, P4-012, P4-093, S4, K4,
 BARR, Mera, P4-103,
 BARTOLOMEI, Fabrice, P2-070,
 P3-034, P4-011, P4-034,
 BARTSCH, Ullrich, P3-093,
 BASTARRIKA, A., P3-018,
 BATTY, Magali, P2-077,
 BAUER, Martin, P1-038,
 BAUMGARTEN, Daniel, P1-028,
 P1-049, P4-022, S6, S22,
 BAUMGARTEN, Thomas, P3-101,
 BAYER, Antony, P1-078,
 BAYLE, Dimitri, P4-052,
 BAZHENOV, Maxim, S16,
 BECKER, Katherine M., P2-069,
 P3-104, P3-109,
 BEDO, Nicolas, P4-062,
 BEHRENS, Tim, P4-063,
 BEKKERING, Harold, P4-085,
 BELAOUCHA, Brahim, P2-052,
 P3-036, P4-013,

BELLIVEAU, John W, P4-074,
 BÉNAR, Christian-George, P1-
 005, P2-070, P3-034, P3-041,
 P4-011,
 BÉNAT, Christian, P4-034,
 BENITES, Daniela, P4-069,
 BERESFORD, Rebecca, P1-060,
 P1-073,
 BERGER, François, P1-066,
 P2-079, P4-090,
 BERGMANN, Til O., S10,
 BERMAN, Jeffrey, P3-037,
 BERNAL - ALVARADO, José de
 Jesús, P2-033,
 BERTRAND, François, P2-032,
 BESTMANN, Sven, P4-093,
 BETHUNE, Allison, P2-019, P3-019,
 BEYEA, Steven, P1-055, P2-057,
 BI, Kun, P1-065,
 BIAGIANTI, Bruno, P1-070,
 BIERMANN-RUBEN, Katja, P3-007,
 BIGELOW, Rose, P3-095,
 BIM, Jan, P3-046,
 BINDER, Jeffrey, P3-010,
 BING, Lu, P4-003,
 BIRBAUMER, Niels, S10,
 BIRG, Liliya, P3-014,
 BIROT, Gwenael, P2-080,
 BISHOP, Ronald, P3-038, P4-031,
 BLASKEY, Lisa, P3-037,
 BLOY, Luke, P3-037, P4-035,
 BOCK, Elizabeth, P4-060,
 BOE, Shaun, P1-061, P1-093,
 P2-089, P2-091, P3-038,
 P4-031, S9,
 BOELMAN, Cyrus, P4-096,
 BOERS, Frank, P2-026, P2-034,
 BOMPAS, Aline, P1-078, P4-067,
 BONJEAN, Maxime, S16,
 BONMASSAR, Giorgio, P4-074,
 BOONSTRA, Tjeerd, S18,
 BOOP, Frederick, P3-014,
 BOSNYAK, Daniel J., P1-044,
 BOSTAN, Stefan, P4-015, P4-065,
 BOUCHARD, Chris, P1-081,
 BOUFFET, Eric, P4-033,
 BOURGUIGNON, Mathieu, P2-055,
 P2-087, P3-013, P3-017,
 P3-026, P3-071, P4-049, S7,
 BOWYER, Susan, P1-064, P3-097,
 BRADBURY, David, P4-093,
 BRANCUCCI, Alfredo, P1-043,
 BRAUN, Alan, P4-048,

BRAUN, Christoph, P3-108, P4-014,
 P4-036,
 BREAKSPEAR, Michael, S19,
 BREALLY, Jennifer, P3-025,
 BRENNAN, Jonathan, P3-097,
 BREUER, Lukas, P1-010, P2-034,
 BRIAN, Jessica, P1-076,
 BRINDLEY, Lisa, P2-071, P3-025,
 BRITZ, Juliane, S19,
 BROCK, Jon, P1-039, P1-079,
 BRODBECK, Christian, P1-002,
 BROOKES, Matthew, P1-033,
 P1-060, P1-072, P2-071,
 P2-088, P3-039, P3-058,
 P3-061, P3-090, P4-030,
 P4-063, P4-059, P4-093,
 S4, S19,
 BROOKS, Teon, P1-002,
 BROWN, Harriet, P2-003,
 BROWN, Mark S., S20,
 BROWN, Peter, P2-066, P4-097,
 BRUÑA, Ricardo, P4-055,
 BRUNET, Nicolas, P4-077,
 BRUNKHORST, Frank, P2-054,
 BUARD, Isabelle, P3-091,
 BUCCINO, Giovanni, P3-007,
 BUCH, Ethan, P1-089,
 BUI, Francis, P4-004,
 BUIATTI, Marco, P1-071,
 BURGESS, Richard, ISACM S1,
 BURGHOF, Martin, P2-028,
 P2-046, P3-078, P3-079,
 BURRA, Nicolas, P4-070,
 BUSTILLO, Juan, P3-095, P3-099,
 BUTORINA, Anna, P2-096,
 BUTZ, Markus, S21,

C

CABRAL, Joana, S4,
 CABRANES, José Antonio, P4-055,
 CALHOUN, Vince, P3-095,
 CAMPBELL, Anne, P2-093,
 CAMPI, Cristina, P4-014,
 CANIVE, Jose, P3-092, P4-028,
 CAO, Liyu, P1-025, P3-064,
 CAPLAN, Jeremy, P1-086,
 CARDOSO DE FREITAS, Susana,
 P4-113,
 CARLSON, Chad, P3-010,
 CARRASCO, Sira, P2-076,
 CARREIRAS, Manuel, P2-055,
 P3-013,

CARRETTE, Evelien, P4-049,
 CARRON, Romain, P4-011, P4-034,
 CARUSO, Laure, P2-044, P4-113,
 CASH, Sydney, S8, S16,
 CASSEL, Daniel B., P1-019, P1-075,
 P1-076, P2-068, P3-019,
 CASTAÑO-CANDAMIL, Juan
 Sebastián, P3-055, P4-026,
 CASTELLANOS DOMÍNGUEZ,
 Germán, P4-026,
 CASTRO - LOPEZ, Jorge, P2-033,
 CAUFFET, Gilles, P2-032,
 CAVELLINI, Anders, P3-084,
 CHADNOVA, Eva, P4-066,
 CHAIKOVSKY, Illya, P3-076, P4-002,
 P4-008,
 CHANG, Jin Woo, P2-060,
 CHANG, Won Seok, P2-060,
 CHAO, Hsiang-Tai, P1-056, P4-054,
 CHAUVEL, Patrick, P2-070, P3-034,
 P4-011, P4-034,
 CHELLA, Federico, P3-057,
 CHEN, Jean, P4-048,
 CHEN, Kuen-Lin, P1-045,
 CHEN, Li-Fen, P1-056, P3-030,
 P3-096, P4-054,
 CHEN, Mengpei, P4-003,
 CHEN, Sophie, P2-070, P3-004,
 CHEN, Yong-Sheng, P3-030,
 P4-054,
 CHEN, Yu-Han, P3-092, P4-028,
 CHENG, Li-Kai, P3-030,
 CHEUNG, Michael, P1-007, P3-043,
 CHEUNG, Teresa P.L., P1-044,
 P1-068, P1-069, P3-002,
 P4-047,
 CHEYNE, Douglas, P1-088, P2-012,
 P2-064, P2-082, P4-015,
 P4-065, P4-069, S20,
 CHIBA, Hiroki, P2-043,
 CHIEH, J.J., P2-008,
 CHIRAN, Doshi, P3-084, ISACM S2,
 CHITOSE, Ryota, P3-029,
 CHO, Jae-Hyun, P4-018, P4-109,
 CHOCHOLACS, Harald, P2-026,
 P2-034,
 CHOI, Ashley, P3-038, P4-031,
 CHOI, Woojin, P1-037,
 CHOU, Chih-Che, P4-037,
 CHOUFANI, Georges, P3-017,
 CHOWDHURY, Rasheda, P2-080,
 CHRISTODOULOU, Nikolaos,
 P3-090,

CHU, Ronald, P4-048,
 CHUKHARKIN, Maxim L., P2-050,
 CHUNG, Chun Kee, P1-036, P1-
 037, P1-091, P1-094,
 P2-074, P2-075, P2-086,
 P3-053, P3-105,
 CICHY, Radoslaw, P4-042,
 CLARKE, Alex, P3-002,
 CLARKE, David, P1-055,
 CLARKE, Maggie, P2-057,
 CLAVAGNIER, Simon, P4-066,
 CLERC, Maureen, P2-052, P3-036,
 P3-041, P4-013, P4-017,
 CLIFFORD, Christopher, P3-099,
 COENE, Annelies, P1-046,
 P1-048, S6,
 COFFMAN, Brian, P1-080,
 P1-085, P3-099,
 COHEN, David, P2-041,
 COHEN, Leonardo, P1-089,
 COHEN, Mike, P2-011,
 COKGUNGOR, Serpil, P2-037,
 COLCLOUGH, Giles, P3-039,
 COLGIN, Laura, S14,
 COLLIGNON, Olivier, P4-068,
 COLLINGER, Jennifer, P1-090,
 COLOMBET, Bruno, P1-005,
 COLOMBO, Anthony, P2-025,
 COLOMBO, Simone, P4-108,
 COMBRISSE, Etienne, P1-097,
 P4-052,
 CONNOLLY, John, P3-011,
 COOPER, Elisa, P1-073,
 COPPOLA, Richard, P4-057,
 COQUELET, Nicolas, P4-049,
 CORDOVA-FRAGA, Teodoro,
 P2-033,
 CORNELISSEN, Piers, P3-015,
 P4-058,
 CORSI, Marie-Constance, P2-032,
 COSMELLI, Diego, P3-049,
 CRAIN, Stephen, P1-039, P1-088,
 S20,
 CRAWFORD, Douglas, P4-069,
 CRESPO-GARCIA, Maité, P3-020,
 P3-074, P4-019,
 CRESSMAN, Erin, P4-069,
 CREVECOEUR, Guillaume,
 P1-046, P1-048, P1-050,
 P4-020, P4-021,
 CUESTA, Pablo, P4-055,
 CURIO, Gabriel, P2-028,
 CUSTO, Anna, S4,

D

DA COSTA, Leodante, P2-019, P2-073, P3-019,
DABEK, Juhani, P4-112,
DAFFERTSHOFER, Andreas, S18,
DÄHNE, Sven, P3-048,
DAIKOKU, Tatsuya, P3-021,
DALAL, Sarang S., P1-042, P3-020, P3-074, P4-019, P4-053, P4-064, P4-087, S3,
DAMMERS, Jürgen, P1-010, P2-026, P2-034, P3-040,
D'ARCY, Ryan C.N., P1-044, P1-055, P1-068, P1-069, P2-057, P4-039,
DARVAS, Felix, S18,
DARVESH, Sultan, P2-057,
DASKALAKIS, Zafiris, P4-103,
DAVID, Olivier, P3-054,
DAVIDSON, D. J., P3-018,
DE GEETER, Nele, P4-021,
DE PASQUALE, Francesco, S4,
DE TAEYE, Leen, P2-059,
DE TIËGE, Xavier, P2-087, P3-017, P3-026, P3-071, P4-049, S7,
DECO, Gustavo, P3-031,
DEGUZMAN, Paul, P3-047,
DEHAENE-LAMBERTZ, Ghislaine, P1-071,
DELAND, Zack, P4-007,
DELGADO, Marisa, P4-055,
DELLA PENNA, Stefania, P1-043, S19,
DEL-POZO, Francisco, P2-076,
DEMANUELE, Charmaine, P3-093,
DEMARCHI, Gianpaolo, P3-067,
DEMONTI, Amala, P2-044,
DERICHE, Rachid, P3-041,
DERY, Sebastien, P3-060,
DESCHAMPS, Tiffany, P4-048,
DESIMONE, Robert, P3-032,
DESTEXHE, Alain, P4-113,
DEVEBER, Gabrielle, P2-064,
DIAMOND, Solomon, P1-051, S6,
DIAZ, B. Alexander, P4-051,
DILLIER, Norbert, P1-042,
DIMITRIJEVIC, Andrew, P3-006,

DINH, Christoph, P1-008, P1-028, P4-022, S22,
DIWAKAR, Mithun, P4-028,
DOCKSTADER, Colleen, P4-033,
DOESBURG, Sam M., P1-057, P1-077, P1-083, P2-068, P2-073, P2-077, P3-003, P4-047, P4-061, P4-062, P4-096, S2, S17,
DOLGOVSKIY, Vladimir, P4-108,
DOMI, Trish, P2-064,
DOSHI, Chiran, P1-006, P2-056, P4-029,
DOUALOT, Audrey, P4-068,
DRAKE, Angela, P4-028,
DUBARRY, Anne-Sophie, P3-004, P4-011, P4-034,
DÜMPELMANN, Matthias, P2-067,
DUNIN-BORKOWSKI, R. E., P2-026, P2-034,
DUNKLEY, Benjamin T., P1-057, P2-073, P3-019, S1,
DUPRÉ, Luc, P1-046, P1-048, P1-050, P4-021,
DURAN, Dunja, P4-101,
DURAND, Pierre, P1-066, P2-079, P4-090,
DYKSTRA, Andrew, P2-006,

E

EDGAR, Chris, ISACM S3,
EDGAR, J. Christopher, P1-082, P3-037, P3-092, P4-028, P4-035,
EGAWA, Kiyoshi, S23,
EICH, E., P2-026, P2-034,
ENDO, Yuta, P3-077,
ENGEL, Andreas K., S10,
ENGEMANN, Denis A., P1-002, P1-098,
ENGWER, Christian, P1-001,
ERNE, Sergio N., P2-031,
ESCH, Lorenz, P1-028, P4-022,
ESWARAN, Hari, P4-001,
EWALD, Arne, P3-042,

F

FALEY, M. I., P2-026,
FALEY, Michael, P2-034,
FARMER, Adam D, P3-102,
FARR, Tracy, P1-047,
FARZAN, Faranak, P4-103, S13,
FASOULA, Angie, P3-040, P4-010,
FATIMA, Zainab, P1-007, P1-019, P3-043,

FAWCETT, Susan, P1-068,
FEDELE, Tommaso, P2-028,
FERMON, Claude, P2-044,
FERRARI, Paul, P2-082, P4-069,
FERREA, Stefano, P1-067, P2-007,
FICKO, Bradley, P1-051,
FIEDLER, Patrique, P2-047,
FISHER, Melissa, P1-070,
FISK, Charlie, P1-082, P4-035,
FISK, John, P2-057,
FLEMMING, Lars, P4-092,
FLORIN, Esther, P4-050, P4-060,
FLYNN, Edward R., S6,
FOLDES, Stephen, P1-090,
FOLEY, Elaine, P3-005,
FOLTYNIE, Thomas, P2-066,
FONSECA, Carlos, P2-047,
FORSS, Nina, P2-061, ISACM S2, S21,
FOURCAULT, William, P2-032,
FOWLER, Neil, P3-025,
FOX, Howard S., P2-069,
FRANCESCHETTI, Silvana, P4-101,
FRANCIOTTI, Raffaella, P1-043,
FRAU, Giuseppe, P4-094,
FREY, Julia Natascha, P2-018,
FRIES, Pascal, P4-113,
FRISTON, Karl J., P3-033,
FUCHS, Manfred, P4-106,
FUCHS, Mirco, P1-003,
FUJIHARA, Kazuyuki, P4-040, P4-045,
FUJIMA, Noriyuki, P4-041,
FUJIMAKI, Norio, P4-023,
FUJIOKA, Takako, P1-041, P1-087, P3-103, S20,
FUJIWARA, Hisako, P2-058, P3-085,
FUKUDA, Masato, P4-040, P4-045,
FUKUSHIMA, Makoto, P4-024,
FUNKE, Michael, ISACM S2,
FUREY, Maura, P3-089, P4-057,
FURLONG, Paul L., P1-060, P3-005, P3-102,
FUSCÀ, Marco, P1-092,
FYSHE, Alona, S12,

G

GADDIPATI, Himaja, P3-091,
GAETZ, William, ISACM S3,
GALER, Sophie, P3-026,
GAN, Zizhao, P4-005,

GARCÉS, Pilar, P4-055,
GARCIA, Christopher, P2-013,
GARCIA, Marco A. C., P2-092,
GARCIA DOMINGUEZ, Luis, P4-103,
GARCÍA MARÍN, Antonio, P4-055,
GAVARET, Martine, P2-070, P3-034, P4-011, P4-034,
GENDELMAN, Howard, P2-062,
GEORGE, Nathalie, P3-040, P3-054, P4-070,
GEORGOPOULOS, Apostolos P., S1,
GERASIMOV, I. A., P2-026,
GHOSH HAJRA, Sujoy, P1-044, P1-068, P1-069,
GHUMAN, Avniel, P4-077,
GIACOBBE, Peter, P4-103,
GILBERT, Jessica, P3-044,
GIONFRIDDO, Alicia, P2-089, P2-091,
GIPS, Bart, S16,
GJEDDE, Albert, P3-106,
GLOBERSON, Eitan, P1-040,
GOBBO, Cyril, P2-032,
GOFF, Donald, P3-093,
GOJ, Roman, P1-002,
GOLDMAN, Serge, P2-087, P3-017, P3-071, P4-049,
GOLDSTEIN, Abraham, P1-015, P1-040, P3-094,
GOLLUB, Randy, P3-050,
GOLTZ, Herb, P4-065,
GOMEZ-AGUILAR, José Francisco, P2-033,
GORDON, Ronald, P2-084,
GÖTZ, Theresa, P2-054,
GOULD, Ian C., P1-074,
GOW, David, P3-045,
GRAMFORT, Alexandre, P1-002, P1-098, P4-025, S12,
GRANOT, Roni, P1-040,
GRANT, Ellen, P1-006, P2-056, P2-078, P3-084, P3-108, P4-029, S16, ISACM S2,
GREEN, Gary, P1-060, P3-015, P4-058,
GREINER, Hansel, P3-085,
GREVE, Andrea, P1-073,
GRIEBEL, Stefan, P2-047,
GRODECKI, Richard, P1-054, P1-057,
GRÖNMEYER, Dietrich, P4-003,

GROOM, Maddie, P1-072,
GROSS, Joachim, P1-025, P1-030, P1-060, P2-081, P3-062, P3-064, P4-075, P4-086, S7, S20,
GROVA, Christophe, P2-080, P4-027,
GRUNAU, Ruth, P1-077, P4-047,
GUDIN, Maria, P2-076,
GUILLOT, Aymeric, P1-097,
GUITARD, Pierre André, P4-113,
GULBINAITE, Rasa, P2-011,
GÜLLMAR, Daniel, P1-028, P4-092,
GÜNTHER, Albrecht, P2-054,
GUTKELCH, Dirk, P1-049,
GUTSCHALK, Alexander, P2-006,
GUZMAN - CABRERA, Rafael, P2-033,
HACKL, Martin, P2-056,
HAEHN, Daniel, P1-006,
HAGOORT, Peter, P3-009,
HALGREN, Eric, S16, K3,
HALL, Emma, P1-072, P3-090, P4-030, S17,
HALL, Judith, P4-056,
HALL, Michael, P1-060,
HALL, Stephen D., P3-102,
HÄMÄLÄINEN, Matti S., P1-002, P1-008, P1-012, P1-028, P1-081, P1-084, P2-027, P2-050, P3-050, P3-084, P4-022, P4-081, S16, ISACM S2,
HAMANDI, Khalid, P1-060, P2-071, P4-082,
HAMER, Hajo, P3-020, P3-074, P4-019, P4-109,
HAMZEI, Farsin, P2-054,
HAN, Jae Ho, P3-081,
HAN, Jooman, P4-009,
HAN, Ruokang, P1-022,
HANG, Menglai, P3-084,
HANLEY, Claire, P1-016,
HANSEN, Peter, P3-015,
HANSLMAYR, Simon, P4-083,
HARDSTONE, Richard, P3-046, P4-051,
HARI, Riitta, K2
HARMS, Christoph, P1-047,
HARPAZ, Yuval, P1-015, P1-040,
HARRINGTON, Deborah, P4-028,
HARTMANN, Thomas, P3-067, P4-110, S9,

HARUTA, Yasuhiro, P2-049,
HASHIUE, Naofumi, P4-071,
HASHIZUME, Akira, P4-071,
HASHMI, Javeria, P3-050,
HASSID, Sergio, P3-017,
HASSON, Uri, P3-047,
HATANAKA, Keisaku, P4-071,
HAUEISEN, Jens, P1-028, P1-046, P1-049, P2-046, P2-047, P2-067, P4-022, P4-025, P4-029, P4-092,
HAUFE, Stefan, P3-047, P3-048, P4-026, S12,
HAUSWALD, Anne, P2-095,
HAYAKAWA, Kazuo, P3-001,
HAYAKAWA, Tomoe, P4-023,
HE, Wei, P1-079,
HEDRICH, Tanguy, P4-027,
HEIB, Dominik, P4-098,
HEIDEMAN, Simone, P1-060, P1-074,
HEIL, Lieke, P4-085,
HEIL, Peter, P3-023,
HEINRICHS-GRAHAM, Elizabeth, P2-062, P2-069, P3-022, P3-104, P3-109,
HEINZE, Hans-Jochen, P4-083,
HELBLING, Saskia, P4-016,
HELFRICH, Randolph F., S10,
HELLE, Liisa, P1-018,
HENAFF, Marie-anne, P4-052,
HENSEL, Johannes, P1-038,
HENSON, Richard, P1-014, P1-060, P1-073, P4-107,
HEPBURN, Susan, P3-091,
HERDMAN, Anthony, P1-077,
HERNANDEZ - GONZALEZ, Martha Alicia, P2-033,
HERNANDEZ-PAVON, Julio C., S13,
HERRING, Jim D., S10,
HERRMANN, Christoph S., S10,
HESS, Robert F., P4-066,
HIGUCHI, Masanori, P1-020, P2-005, P2-038,
HILLEBRAND, Arjan, S2,
HINCAPIÉ, Ana Sofia, P3-049,
HINKLEY, Leighton, P1-070, P2-011,
HIRAISHI, Hirotoshi, P4-032,
HIRATA, Masayuki, P3-001, P3-069, P4-032,
HIRONAGA, Naruhito, P4-072,
HISAGI, Miwako, P1-024,
HIYAMA, Ei, P2-035,

HÖFNER, Nora, P2-046,
HÖHNE, Johannes, P4-026,
HOLLIDAY, Ian, P1-060,
HONDA, Chika, P3-001,
HONKANEN, Roosa, P3-028,
HONMA, Susanne, P2-011,
HOOD, Stephanie, P3-099,
HORIE, Shizuka, P4-072,
HORN, Paul, P2-058,
HORNG, H. E., P1-045, P2-008,
HORSCHIG, Jörn M., S22,
HOSHINO, Ikumi, P3-086,
HOUCK, Jon, P3-095,
HOWELL, Breannan, P3-092,
HSIEH, Jen-Chuen, P1-056,
P3-030, P3-096, P4-054,
HUANG, Chiu-Jung, P3-096,
HUANG, Mingxiang, P3-092,
P4-028, S1,
HUANG, Y.T., P2-008,
HULTÉN, Annika, P3-009,
HUNOLD, Alexander, P4-029,
HUNT, Benjamin, P1-060, P4-030,
HUNTER, Michael, P3-092,
HUONKER, Ralph, P2-054,
HWANG, Seong-min, P1-053,
P2-029, P3-079, P3-081,
HWANG, Su-Jeong, P2-060,
HYMER, Mark, P4-058,
HYMERS, Mark, P3-015,

I

IBRAHIM, George M., P2-068,
IHARA, Aya, P4-023,
IIVANAINEN, Joonas, P2-051,
IKEDA, Takashi, P4-032,
ILMONIEMI, Risto J., P1-013,
P2-042, P3-011, P3-080,
P3-082, P4-021, P4-111,
P4-112,
INAMIZU, Saeko, P4-072,
INCE, Robin, P4-086,
IOANNIDES, Andreas, P1-062,
P3-106, P4-079, S11,
ISABELLA, Silvia, P2-012,
ISHIYAMA, Atsushi, P3-024,
ISIK, Leyla, P4-073,

ITO, Tomoshiro, P4-041,
IWAI, Morio, P4-004,
IWAKI, Sunao, P4-074,

J

JACKSON, Laura, P4-056,
JAMALI, Shahab, P1-041, P1-087,
P3-103,
JAN, Fiesal, P3-090,
JANSSENS, Clio, P4-020,
JAS, Mainak, P1-002,
JAU, Yuan-Yu, P2-025,
JENSEN, Ole, P1-065, P3-027,
P4-098, S10, S16, K5,
JEONG, Woorim, P2-074, P2-075,
JERBI, Karim, P1-097, P3-049,
P4-052, S3,
JETLY, Rakesh, P1-054, P1-057,
JHA, Ashwani, P2-066,
JI, Zhengwei, P4-028,
JIANG, Haiteng, P1-065, P4-098, S14,
JIANG, Shiqin, P4-003,
JIMBO, Yasuhiko, P3-083,
JIN, Seung-Hyun, P2-074, P2-075,
JIRSA, Victor, S16,
JMAIL, Nawel, P3-034,
JOBST, Cecilia, P1-088, P2-064,
P4-015, P4-065,
JOHNSON, Blake, P1-039, P1-079,
P1-088, S20,
JOHNSON, Sam, P3-015, P4-058,
JONES, Matthew, P3-093,
JONES, Stephanie, S16,
JOUSMÄKI, Veikko, P2-050,
P2-087, S7,
JUN, Sung Chan, S22,

K

KABDEBON, Claire, P1-071,
KADIS, Darren S., P3-006,
KADOYA, Tomoka, P1-022,
KAHANE, Philippe, P1-097,
KAISER, Mathis, P3-020, P4-053,
P4-064, P4-087, P4-088,
KAKISAKA, Yosuke, P1-059,
KALABOUKHOV, Alexei, P2-050,
KANDORI, Akihiko, P4-006,
KANESALINGAM, Thilakshan,
P2-045,
KANNO, Akitake, P1-059, P1-063,
KASAGI, Masato, P4-045,

KATAGIRI, Keishi, P2-040,
KATORI, Yukio, P1-063,
KAWABATA, Shigenori, P2-049,
KAWAI, Jun, P2-038,
KAWASE, Tetsuaki, P1-063,
KAWASHIMA, Ryuta, P1-059,
P1-063,
KEITAANNIEMI, Maria, P1-013,
KELLINGHAUS, Christoph, P2-067,
KENET, Tai, P3-050, S17,
KESSLER, Ellyanna, P4-077,
KESSLER, Klaus, P1-060,
KHAN, Sheraz, P1-081, P2-041,
P3-050, P3-108,
KHATAMIAN, Yasha, P4-048,
KHAYAT, Paul, P4-068,
KIA, Seyed Mostafa, P1-095,
KIELAR, Aneta, P3-012, P4-048,
KIKUCHI, Mitsuru, P4-032,
KIM, Bong Soo, P2-060,
KIM, Chan Hee, P1-036,
KIM, Dajung, P1-037, P3-105,
KIM, Hye Won, P3-105,
KIM, Hyun Ah, P3-105,
KIM, Ji-Woong, P3-051,
KIM, June Sic, P1-036, P1-037,
P1-091, P1-094, P2-074,
P2-086, P3-053, P3-105,
KIM, Kisun, P2-086,
KIM, Kiwoong, P1-053, P2-029,
P2-060, P3-051, P3-079,
P3-081, P4-089, S5, S15,
KIM, Min-Young, P3-051,
KIM, Museong, P2-074,
KIMURA, Tomoya, P4-032,
KIRA, Jun-ichi, P4-072,
KITCHING, J, P4-001,
KLEINJUNG, Tobias, P1-042,
KLEPP, Anne, P3-007,
KLING, Christoph, P1-038,
KNAPPE, Svenja, P4-001, S5,
KNÖSCHE, Thomas, P1-003,
P3-107, P4-018, P4-024, P4-109,
KNOTT, Nichole L, P2-069,
KOBAYASHI, Eliane, P2-080,
P4-027,
KOBAYASHI, Koichiro, P2-043,
P4-004,
KOCH, Christian, P1-038,
KOCH, Hans, S15,
KODITUWAKKU, Elizabeth, P1-080,
KODITUWAKKU, Piyadasa, P1-080,
P2-013,

KOELEWIJN, Loes, P1-078,
P2-071, P4-059, P4-082,
KOENIG, Reinhard, P3-023,
KOERBER, Rainer, P3-079,
KOKKINOS, Vasileios, P3-052, S11,
KONG, Jian, P3-050,
KONG, Xiangyan, S15,
KÖNIG, Reinhard, P1-009,
KOPONEN, Lari M., P2-042,
P3-080,
KÖRBER, Rainer, P2-028, P2-046,
P3-078,
KORDOWSKI, Paweł, P1-009,
KOSHELETS, V. P., P2-026,
KOSTOPOULOS, George K.,
P3-052, S11,
KOTANI, Kiyoshi, P3-083,
KOTEK, Hadas, P1-024,
KOUPPARIS, Andreas M., P3-052,
S11,
KOUPTSOVA, Jane, P2-009,
KOVACEVIC, Natasa, P1-007,
P3-043,
KOVACEVIC, Sanja, P2-015,
P4-046,
KOVELMAN, Ioulia, P3-097,
KRAEUTNER, Sarah, P2-089,
P2-091,
KRAUSE, Vanessa, P2-085,
KREISELMAYER, Gernot, P3-020,
P3-074, P4-019,
KRINGELBACH, Morten, P3-031,
KUDO, Kohsuke, P4-041,
KUGEL, Harald, P2-067,
KUJALA, Jan, P3-049,
KUKKONEN, Matleena, P1-013,
P3-082,
KUMAR, Jyothika, P3-090,
KUPERS, Ron, P3-106,
KÜPPER, Philipp, P2-067,
KURIKI, Shinya, P1-023, P2-002,
P3-029,
KURISU, Kaoru, P4-071,
KURUMAYA, Haruka, P1-026,
KURZ, Max, P3-104,
KUSNIR, Flor, P4-075,
KWISTHOUT, Johan, P4-085,
KWON, Hyuk Chan, P2-060,
P3-051,
KYONG, Jeong-Sug, P3-053,

L

LA CORTE, Valentina, P3-054,
LAAKSONEN, Kristina, P2-061,
LABLANC, Emily, P2-057,
LABYT, Etienne, P1-066, P2-032,
P2-037, P2-079, P4-090,
LACHAUX, Jean-Philippe, P1-097,
LAI, Waikong, P1-042,
LAING, Erika, P1-058, P3-008,
LAJINESS-O'NEILL, Renee, P3-097,
LALANCETTE, Marc, P1-019,
P2-016, P2-045, P4-091,
LALLIER, Marie, P2-055, P3-013,
LAM, Nietzsche, P3-009,
LANGAR, Lilia, P2-079,
LANGE, Joachim, P1-067, P3-101,
LARGE, Edward, P2-014,
LARSON, Eric, P1-002,
LATZ, David, P2-085,
LAU, Stephan, P4-092,
LAUGHLIN, Suzanne, P4-033,
LE PRADO, Matthieu, P2-032,
LEBEDEV, Victor, P2-022, P4-108,
LECHINGER, Julia, P4-098,
LEE, Eun Bong, P3-105,
LEE, Hyeonrae, P1-091,
LEE, Pin-Shiuan, P4-054,
LEE, Roland R., P4-028, ISACM S2,
LEE, Seong-Joo, P1-053, P2-029,
P3-079, P3-081,
LEE, Yong Ho, P2-060, P3-051,
LEIGH, Rosie, P3-012,
LEITMAN, David I., P4-035,
LELIAERT, Jonathan, P1-048,
LEMARÉCHAL, Jean-Didier,
P3-054,
LEMBKE, Gertrud, P2-031,
LEMINEN, Alina, P3-011,
LENNERT, Therese, P4-076,
LEONARDELLI, Elisa, P4-036,
LEONARDELLI, Eliza, P3-108,
LEPORE, Franco, P4-068,
LERCH, Jason, P4-015,
LESKE, Sabine, P2-020,
LEUNG, Rachel, P1-076, P2-009,
LEUTHOLD, Hartmut, P2-081,
LEVINE, Seth, P1-092,
LEVY, Michael, P4-028,
LEW, Seok, P1-012, P1-084,
P2-027, P3-084,
LI, Shi, P2-030,
LI, Xin, P1-012,
Li, Yuanning, P4-077,
Li, Zhimin, P3-010,
LIAO, Shu-Hsien, P1-045, P2-008,
LIDDLE, Elizabeth, P1-033, P1-072,
P3-090,
LIDDLE, Peter, P1-033, P1-072,
P3-090,
LIEBL, Maik, P1-046, P1-049, S6,
LIEGEIS-CHAUVÉL, Catherine,
P4-034,
LILEY, David, S11,
LIM, Manyoel, P1-037, P3-105,
LIM, Mark, P4-093,
LIM, Sanghyun, P3-081,
LIN, Fa-Hsuan, P4-037,
LIN, Jo-Fu, P4-037,
LIN, Ming-Wei, P4-054,
LINA, Jean-Marc, P2-080, P4-013,
P4-027, S8,
LINDEN, David, P3-025,
LINGFORD-HUGHES, Anne,
P3-088,
LINGNAU, Angelika, P2-094,
P2-095, P4-084,
LINKENKAER-HANSEN, Klaus,
P3-046, P4-051,
LINKS, Kira, P3-012,
LITHARI, Chrysoula, P4-078,
LIU, Ming-Wei, S20,
LITVAK, Vladimir, P1-060, P2-066,
P2-096, P4-097, S21,
LIU, Careesa C., P1-044, P1-069,
LIU, Hongxing, P4-038,
LIU, Lichan, P1-062, P3-106, S11,
LIU, Song, P1-082, P3-037,
LIU, Tai-Ying, P3-030,
LIU, Yu-Hsiang, P1-056,
LIZARAZU, Mikel, P2-055, P3-013,
LOBIER, Muriel, P3-015,
LONGCAMP, Marieke, P3-004,
LOPEZ, Jose David, P4-012,
LÓPEZ, María Eugenia, P4-055,
LÓPEZ-HINCAPIÉ, José David,
P3-055,
LOW, Intan, P1-056,
LU, Mai, P2-072, P3-100, P4-105,
LU, Qing, P1-065,
LUCKHO, Henry, P3-031, P3-039,
P4-047,
LUDEWIG, Jakob, P1-001,
LUDWIG, Krystal, P4-035,
LUECKMANN, Jan-Matthis, P3-046,

LUESSI, Martin, P1-002, P1-084,
P2-027, P3-084,
LUNDQVIST, Daniel, P2-050,
LUOMA, Jarkko, P2-063,
LURIA, Gianvittorio, P4-101,

M

MA, Ping, P4-005,
MABBOTT, Donald, P4-033,
MACDONALD, Matt J., P1-054,
P2-019, P3-003,
MAESS, Burkhard, P1-003, P3-107,
MAESTU, Fernando, P2-076,
P4-055, ISACM S2,
MAGAZZINI, Lorenzo, P3-087,
MAGNELIND, Per, S6,
MÄKELÄ, Jyrki, P2-063,
MÄKELÄ, Niko, P3-011,
MÄKI, Hanna, P3-082,
MÄKINEN, Antti, P4-112,
MANOACH, Dara, P3-093,
MANSVELDER, Huibert D., P3-046,
P4-051,
MARCOS, Alberto, P4-055,
MARINKOVIC, Ksenija, P2-015,
P4-046,
MARSHALL, Tom R., S10,
MARTINEZ, Monica, P2-030,
MARTÍNEZ-VARGAS, Juan David,
P3-055,
MARTY, Brice, P2-087, P3-017,
P3-071, P4-049,
MARY, Alison, P3-071,
MARZETTI, Laura, P3-057,
MASCARENAS, Anthony, P3-084,
MASLENNIKOV, Y. V., P2-026,
MASON, Karen, P1-064,
MASTER, Sabah, P2-064,
MATANI, Ayumu, P4-023,
MATSUNAGA, Rie, P1-034,
MATTOU, Jeremie, P4-067,
MATYSIAK, Artur, P1-009, P3-023,
MCGONIGLE, David, P1-016, S10,
MCINTOSH, Randy, P1-007,
P3-043, S16,
MCKAY, Jim, P2-025,
MCLAY, Robert, P4-028,

MCWHINNEY, Sean, P4-039,
MEAUX, Emilie, P2-077,
MELTZER, Jed, P3-012, P4-048, S11,
MENHORN, Benjamin, P2-031,
MERLET, Isabelle, P2-080,
MERY, Domingo, P3-049,
METSOMAA, Johanna, P1-013,
P4-111,
MEYER, Samuel, P1-081,
MEYER, Sofie S, P1-060, P3-058,
P4-093,
MIASNIKOV, Georgy, P4-008,
MICHALAREAS, Giorgos, P4-075,
MICHEL, Christoph M., S4,
MIKROULIS, Apostolos, P2-044,
MILLER, Paul, P3-084,
MIRANDA, Jose Ricardo A., P1-052,
MISIC, Bratislav, P1-007, S1,
MITCHELL, Tom, P3-008,
MIYAGAWA, Shigeru, P1-024,
MIYAMOTO, Masakazu, P2-038,
MIYAZAKI, Akane, P1-022,
MIYAZAKI, Takahiro, P1-041,
P2-040,
MIZUIRI, Danielle, P1-070, P2-011,
MJASNIKOV, Georg, P3-076,
MODY, Maria, P3-098,
MOISEEV, Alexander, P1-077,
MOLINARO, Nicola, P2-055, P3-013,
MOLLE, Matthias, S8,
MONITTOLA, Gianpiero, P4-094,
MOORE, Christopher, S16,
MORALES, Sophie, P2-032,
MORALES, Wendy, P1-085,
MORAN, John, P1-064,
MORAN, Rosalyn, P3-044, S16,
MORATTI, Stephan, P4-078, S20,
MORGAN, Benjamin R., P1-083,
P2-068, P4-061,
MORILLON, Benjamin, P2-001,
MORITA, Naoki, P2-040,
MORRIS, Peter, P1-060, P1-072,
P3-061, P3-090, P4-030, K1,
MOSSAD, Sarah, P2-016,
MOTEGI, Tomokazu, P4-040,
P4-045,
MUESCH, Kathrin, P3-016,
MÜLLER, Klaus-Robert, P3-048,
MÜLLER, Nadia, P4-080,
MUNDING, Dashiell, P3-004,
MURAKAMI, Hiroatsu, P4-095,
MUTANEN, Tuomas P., P1-013,
P3-082,

MUTHUKUMARASWAMY,
Suresh D., P1-011, P1-078,
P2-071, P2-093, P3-025,
P3-087, P3-088, P4-056,
P4-059,
MYERS, Jim, P3-088,

N

NADAR, Priyanka, P1-051,
NAGAMINE, Yoshihide, P1-059,
NAGARAJAN, Srikanth, P1-017,
P1-070, P2-011, P4-100, S2,
NAKAGAWA, Seiji, P1-021, P2-002,
NAKAJIMA, Midori, P4-041,
P4-096, S23,
NAKAMURA, Akinori, P3-107,
P4-055,
NAKASATO, Nobukazu, P1-059,
P1-063, ISACM S1,
NARAYANA, Shalini, P3-014,
NARITA, Kosuke, P4-040, P4-045,
NARUMOTO, Jin, P4-040, P4-045,
NAYAK, Tapsya, P2-056, P3-084,
P3-108, ISACM S2,
NAZAROVA, Maria, P2-078, P2-096,
NEAR, Jamie, P4-040, P4-045,
NEMOTO, Iku, P1-035, P3-077,
NENONEN, Jukka, P1-018, P2-021,
NEST, Timothy, P3-059,
NEULING, Toralf, S10,
NEUMANN, Wolf-Julian, P2-066,
NEWMAN, Aaron, P4-039,
NICCOLAI, Valentina, P3-007,
NICHOLS, Sharon, P4-028,
NIEMINEN, Jaakko O., P2-042,
P3-080, P3-082,
NIKULIN, Vadim, P3-048,
NIRANJAN, Ajay, P1-058,
NISO, Guiomar, P2-076, P3-060,
NOBRE, Anna C., P1-074,
NOBRE, Kia, P1-060,
NOLTE, Guido, P3-042, S18,
NONCLERCQ, Antoine, P3-026,
NOWAK, Hannes, P2-031,
NUGENT, Allison, P3-089, P4-057,
NUMATA, Takashi, P3-083,
NUMMENMAA, Aapo, P1-084,
P2-027, P3-084, P4-044,
P4-102,
NURMINEN, Jussi, P2-063,
NUTT, David, P3-088,

O

O'NEILL, Jennifer, P2-069,
OBLESER, Jonas, P1-042,
OCHI, Ayako, P2-068, P4-096,
OGATA, Kuniomi, P4-006,
OIWA, Kosuke, P3-083,
OKADA, Yoshio, P1-006, P1-008,
P1-012, P1-084, P2-027,
P2-056, P2-078, P3-084,
P3-108, P4-029, P4-044, S16,
ISACM S2
OKAMOTO, Masayoshi, P2-040,
OKANARI, Kazuo, P4-096,
OLIVA, Aude, P4-042,
OLIVETTI, Emanuele, P1-095,
P4-110,
OLSON, Bruna, P3-045,
OMURA, Kayoko, P3-001,
ONDA, Masanori, P3-024,
ONDOBAKA, Sasha, P4-085,
O'NEILL, George, P2-088, P3-061,
P4-093,
ONISHI, Mai, P3-001,
ONO, Yumie, P3-024,
OOSTENVELD, Robert, P2-050,
P4-109,
OOSTERHOF, Nikolaas N., P4-084,
OP DE BEECK, Marc, P2-087,
P3-017, P3-026, P3-071, P4-049,
OSSADTCHI, Alexei, P3-056,
OSSANDON, Tomas, P4-052,
OSWAL, Ashwini, P2-066, P4-097,
ISACM S2,
OTSUBO, Hiroshi, P2-068, P4-096,
OTSUKA, Asuka, P2-002,
OTSUKA, Kosuke, P4-041,
OUANOUNOU, Gilles, P2-044,
OYAMA, Daisuke, P1-020, P2-005,
P2-038,

P

P. CASTELLANOS, Nazareth,
P4-055,
PADULO, Caterina, P1-043,
PAIXAO, Fabiano C., P1-052,
PALANIYAPPAN, Lena, P1-033,
P3-090,
PALMER, Clare, P1-074,
PALVA, Matias, P3-028, P3-068,
PALVA, Satu, P3-028, P3-068,
PANAMSKY, Lilia, P3-012,

PANDEY, Juhi, P1-082,
PANG, Elizabeth W., P1-054,
P1-057, P1-075, P1-076,
P2-004, P2-016, P2-019,
P2-073, P3-003, P3-006,
P3-019, S1,
PANNETIER-LECOEUR, Myriam,
P2-036, P2-044, P4-113,
PANTAZIS, Dimitrios, P1-024,
P4-042,
PANZERI, Stephano, P4-086,
PANZICA, Ferruccio, P4-101,
PAPADELIS, Christos, P1-006,
P2-056, P2-078, P3-084,
P3-108, P4-029, P4-079,
ISACM S2,
PAPADOPOULOU, Théodore, P2-052,
P3-036, P3-041, P4-013,
PAPADOPOULOS, Andreas, P3-088,
PAPANICOLAOU, Andrew, P3-014,
PAPANIKOLAOU, Ioannis, P1-060,
PARK, Hyojin, P3-062,
PARKKONEN, Eeva, P2-061,
PARKKONEN, Lauri, P1-002,
P2-051, P2-061, P4-113, S3,
S5, S9, S12,
PARRA, Lucas, P3-047,
PASCARELLA, Annalisa, P4-017,
PASQUARELLI, Alberto, P2-031,
PATEAU, Ritva, ISACM S1,
PATRICIA, Limousin, P2-066,
PAUL, Elodie, P2-044,
PAULSON, Douglas, P3-084,
PEATFIELD, Nicholas, P4-080,
PEIGNEUX, Philippe, P3-026,
P3-071,
PEKKONEN, Eero, P2-063,
PELED, Noam, P1-096,
PELLIZZER, Giuseppe, P2-083,
PEÑA, Marcela, P1-071,
PENNY, William, P4-012,
PEREDA, Ernesto, P2-076,
PERES, André S. C., P2-092,
PERRY, Gavin, P4-082,
PETER, Nicole, P1-042,
PETERSEN, Jill, P1-068,
PHILIPPE, Anne-Charlotte, P2-052,
P3-036, P3-041, P4-013,
PIANA, Michele, P2-024, P4-014,
P4-017, P4-101,
PIELOTH, Christof, P1-003, S22,
PIENAAR, Rudolph, P1-006,
PIETRAS, Johan, P1-066,

PIITULAINEN, Harri, P2-061, S7,
PINEDA, José, P4-055,
PIZZELLA, Vittorio, P3-057,
POEPPPEL, David, P2-014,
POESCHL, Christiane, P2-037,
POGGIO, Tomaso, P4-073,
POGHOSYAN, Vahe, P1-062,
P3-106,
POIL, Simon-Shlomo, P4-051,
POLLOK, Bettina, P2-085,
PONTON, Curtis, P4-106,
POPOV, Tzvetan, P1-065, P2-090,
P4-053, P4-064, P4-088,
PORT, Russell, P3-063,
POURTOIS, Gilles, P4-020,
POWER, Bill, P3-084,
PRATT, Kevin, P3-084,
PRICE, Darren, P1-033,
PRINSLOO, Kevin, P1-060, P3-064,
PROBERT SMITH, Penny, P4-063,
PROBST, Rudolf, P1-042,
PROKOFYEV, Andrey, P2-096,
PTITO, Maurice, P3-106,

Q

QUINN, Andrew, P3-015, P4-058,
QURAAAN, Maher A., P1-019,
P3-043, S2,
QURESHI, Ayaz, P3-090,

R

RACH, Stefan, S10,
RAEDT, Robrecht, P2-059,
RAFIDI, Nicole, P3-008,
RAGHAVAN, Manoj, P3-010,
RAMON, Ceon, P2-097,
RAMPP, Stefan, P2-067, P3-020,
P3-074, P4-019, P4-109,
ISACM S1,
RANA, Kunjan D., P4-081,
RANDAZZO, Michael, P1-090,
RANDLE, James, P4-082,
RANNOU, Nicolas, P1-006,
RAYNER, Grant, P2-030,
RÉGIS, Jean, P4-011, P4-034,
REINEMAN, Richard, P2-030,
REWIN CIESIELSKI, Kristina,
P1-081,
REYNAUD, Alexandre, P4-066,
REZAEI, Roozbeh, P3-014,
REZEK, lead, P4-063,

RIBARY, Urs, P1-077,
RICHARD, Annette, P3-097,
RICHARDSON, R Mark, P1-058,
RILLO, Conrado, P2-030,
RITTER, Petra, S16,
ROBB, Ashley, P4-028,
ROBERT, Kühler, P1-038,
ROBERTS, Larry E., P1-044,
ROBERTS, Timothy P.L., P1-010,
P1-082, P3-037, P3-063,
P4-035, ISACM S3, S17,
ROBERTSON, Amanda, P1-054,
P2-004, P2-019, P2-073,
P3-019,
ROBERTSON, Kevin R, P2-069,
ROBINSON, Stephen, P2-065,
P4-057, S4, S10,
ROBLES, Jose, P3-084,
ROBSON, Siân, P3-090, P4-030,
ROCKWOOD, Kenneth, P2-057,
ROHENKOHLE, Gustavo, P1-074,
ROHU, Victor, P2-037, P2-079, P4-043,
ROJAS, Donald C., P3-091, S20,
ROMANI, Gian Luca, P3-057,
ROMBETTO, Sara, P2-024,
ROMERO, Lucinda, P1-080, P1-085,
ROOSINK, Meyke, P3-105,
ROSE, Douglas, P2-058, P3-085,
ROSE, Nathan, P3-012,
ROSEN, Burke, P2-015, P4-046,
ROSENTHAL, Daniel, P3-047,
ROSS, Bernhard, P1-041, P1-086,
P1-087, P2-017, P3-072,
P3-103, S20,
ROSSITER, Holly, P3-102,
ROTONDI, Fabio, P4-101,
ROUHINEN, Santeri, P3-028,
ROUTLEY, Bethany C., P1-060,
P2-071, P4-059, P4-082,
ROUX, Frédéric, S14, 17,
RUESCHEMEYER, Shirley-Ann,
P3-016,
RUHNAU, Philipp, P2-018, P2-020,
P3-067, P4-080,
RUMIATI, Raffaella, P2-094,
RUSSO, Maurizio, P2-024,
RUTKA, James T., P2-068,
RZEMPOLUCK, Edward, P2-084,

S
SAKAI, Fumio, P2-039,
SAKAI, Yuki, P4-040, P4-045,
SAKELLARIOU, Dimitris F., P3-052,
SAKUMA, Satoru, P4-096,
SAMIEE, Soheila, P3-066, P4-060,
SANCHEZ, Carolina, P3-067,
SANCHO, Miguel, P4-055,
SANDER-THÖMMES, Tilmann,
P1-038, P4-001,
SANDKOVSKY, Uriel, P2-069,
SANO, Yuko, P4-006,
SANTAMARIA, Pamela, P2-062,
SAPOGNIKOV, Artur, P4-008,
SARASSO, Simone, S13,
SARIDIS, George, P3-106,
SARVAS, Jukka, P4-111,
SATO, Masa-aki, P4-024, P4-104,
SATO, Yosuke, P4-096,
SAVICK, Renate, P1-085,
SAXENA, Neeraj, P4-056,
SCHABUS, Manuel, P4-098,
SCHÄFER, Carmen, P1-083,
SCHEER, Hans-Jürgen, P2-028,
SCHILLER, Katherine, P3-014,
SCHMITZ, Remy, P3-026,
SCHNEIDER, Till R., P3-016, S10,
SCHNEIDERMAN, Justin F.,
P2-050, P4-099,
SCHNITZLER, Alfons, P1-067,
P2-007, P2-085, P3-007,
P3-101,
SCHOFFELEN, Jan-Mathijs, P3-009,
SCHROEDER, Charles E., P2-001,
P2-014,
SCHULTZ, Robert, P1-082,
SCHULTZE, Volkmar, P2-048,
SCHWARTZ, Denis, P1-004,
P3-040, P3-054, P4-010,
SCHWARTZ, Shira, P3-098,
SCHWARZBACH, Jens, P1-092,
SCHWINDT, Peter, P2-025, S5,
SCHYNS, Philippe, P4-086,
SEAMAN, Brandi, P1-081,
SEDGE, Paul, P1-054, P1-057,
SEIDEL, Gundula, P2-054,
SEJNOWSKI, Terry, S16,
SEKI, Shogo, P1-035,
SEKIHARA, Kensuke, P1-017,
P2-035, P2-049, P4-006,
P4-100,
SERI, Stefano, P3-005,

SERRE, Thomas, P4-017,
SHAFFER, Valerie, P1-024,
SHAFI, Mouhsin, S13,
SHAH, Nadim Joni, P1-010,
P2-026, P2-034,
SHAH, Vishal, P2-023,
SHAHAZI AAVARVAND, Forooz,
P3-042,
SHAPIRA LOTS, Inbal, P1-031,
SHAW, Alexander, P4-056,
SHEK, Pang N., P1-054, P1-057,
P2-019,
SHIGETA, Kazuhiro, P1-023,
SHIM, Jeong Hyun, P1-053,
P2-029, P3-081,
SHIM, Jwong Hyun, P3-079,
SHIMBA, Kenta, P3-083,
SHINADA, Kei, P2-039,
SHINN, Ann, P3-093,
SHIRAIISHI, Hideaki, S23,
SHIRAI, Hideaki, P4-041,
SHYETROV, Yury, P1-060,
SIEBENHÜHNER, Felix, P3-028,
P3-068,
SIELUZYCKI, Cezary, P1-009,
SIMON, Jonathan Z., S20,
SINGEL, Debra, S20,
SINGH, Krish, P1-011, P1-016,
P1-060, P1-078, P2-071,
P2-093, P3-025, P3-087,
P4-030, P4-056, P4-082,
P4-059, ISACM S3, S3,
SKELTON, Michael, P3-090,
SKOCIC, Jovanka, P4-033,
SLATER, Jeremy, ISACM S3,
SLOBODCHIKOV, V. Yu., P2-026,
SMITH, Helen, P1-072,
SMITH, Mary Lou, P1-076, P2-016,
P2-068,
SMITH, Stephen, P3-031, P3-039,
P4-063,
SNEAD III, Carter, P2-068,
SNYDER, Brian, P2-078,
SOBOLEV, A. S., P2-026,
SOEKADAR, Surjo, S4, S10,
SOETAERT, Frederik, P1-050,
SOLIS, Isabel, P1-081,
SOLOMON, Jack, P1-061,
SOLORIO - MEZA, Sergio, P2-033,
SOMMARIVA, Sara, P2-024,
P4-101,
SONG, Tao, P4-028,
SONG, Xiaowei, P2-057,

SORRENTINO, Alberto, P2-024,
P4-014, P4-101,
SOSNYTSKA, Taisia, P4-008,
SOSNYTSKAJA, Taisya, P3-076,
SOSNYTSKY, Volodymyr, P4-008,
SOTO, Juan LP, P1-097,
SOUZA, Victor Hugo O., P2-092,
SOWMAN, Paul, S20,
STALJANSSENS, Willeke, P2-059,
STAUDIGL, Tobias, P4-083,
STEFAN, Hermann, P2-067,
STEINHOFF, Uwe, P1-046, P1-049,
P4-001, S15,
STEINMETZ, Sarah, P3-091,
STENROOS, Matti, P2-051, P4-102,
S15,
STEPHEN, Julia, P1-080, P1-081,
P1-085, P3-099,
STEPHENS, Emily, P1-085,
STEVENS, Tynan, P1-055,
STICKGOLD, Robert, P3-093,
STONE, David, P3-099,
STORY, Ross, P1-093,
STROBBE, Gregor, P2-059,
STROGANOVA, Tatiana, P2-096,
P3-056,
STROHMEIER, Daniel, P1-002,
P1-028, P4-022, P4-025,
STROINK, Gerhard, P1-055,
STUFFLEBEAM, Steven, P3-050,
ISACM S3,
STYLIADIS, Charis, P4-079,
SU, Tung-Ping, P3-096,
SUDMEYER, Martin, P1-067,
P2-007,
SUDRE, Gustavo, S12, S22,
SUGATA, Hisato, P3-001, P3-069,
SUGAWARA, Ayaka, P1-024,
SUGINO, Yuta, P1-034,
SULAI, Ibrahim, P4-007,
SUMNER, Petroc, P1-011, P2-093,
SUN, Limin, P1-008, P3-084,
SUN, Yinming, P4-103,
SUNDARAM, Padmavathi, P4-044,
SUZUKA, Yuko, P1-020, P2-005,
SUZUKI, Yusuke, P4-040, P4-045,
SWANSON, Sara, P3-010,
SWINDELLS, Susan, P2-069,
SYMMONDS, Mkael, P3-044,
SYNNES, Anne, P4-047,

T
TACCHETTI, Andrea, P4-073,
TADEL, François, P3-060,
TAKAHASHI, Taiki, P1-022,
TAKANASHI, Yoshitaka, P1-063,
TAKEDA, Tsunehiro, P2-040,
TAKEDA, Yusuke, P4-104,
TAKEI, Yuichi, P4-040, P4-045,
TAKESHITA, Yuya, P1-034,
TAKEUCHI, Akimasa, P3-083,
TAL, Idan, P1-027, P1-029, P1-040,
P2-014,
TALAMINI, Lucia, P4-098,
TALES, Andrea, P1-078,
TAMAKI, Masako, S8,
TAN, Heng-Ru May, P1-030,
P2-081,
TANAKA, Keita, P1-032,
TANG, Fakuan, P4-005,
TANG, Huizhen, P1-039, S20,
TANG, Lu, P2-053,
TARRIN, Nicolas, P2-037,
TAULU, Samu, P1-018, P2-063,
TAYLOR, Jason, P1-014,
TAYLOR, Margot J., P1-054,
P1-057, P1-075, P1-076,
P1-083, P2-004, P2-009,
P2-016, P2-019, P2-073,
P2-077, P3-019, P4-061,
TECH, Reyko, P4-106,
TENNEY, Jeffrey, P2-058, P3-085,
TEPLEY, Norman, P1-064,
TERAE, Satoshi, P4-041,
TERAZONO, Yasushi, P4-023,
TERRY, Jeremy, P2-030,
TERVO, Aino, P4-112,
TESAN, Graciela, P1-088,
TESCHE, Claudia, P2-013,
TEWARIE, Prejaas, S21,
THAI, Ngoc Jade, P3-005,
THEILMANN, Rebecca, P4-028,
THOMA, Robert, P3-095,
THOMPSON, Jessica, P1-041,
THUT, Gregor, P1-025, P3-062,
P3-064, P4-075, S13,
TINGLING, Keriann, P3-003,
TOBIMATSU, Shozo, P4-072,
TODARO, Chiara, P4-017,
TOMMASI, Luca, P1-043,
TORO SEREY, Claudio, P3-006,
TRAHMS, Lutz, P1-038, P1-047,
P1-049, P4-001,

TRAINOR, Laurel J., S20,
TRAUTMANN-LENGSFELD,
Sina A., S10,
TRÉBUCHON - DA FONSECA,
Agnès, P4-011, P4-034,
TROEBINGER, Luzia, P3-058,
P4-012, P4-093,
TSUBAKIDA, Hirohisa, P3-024,
TSUYUGUCHI, Naohiro, P2-038,
TU, Cheng-Hao, P1-056, P3-096,
P4-054,
TUCCIARELLI, Raffaele, P2-094,
P2-095, P4-084,
TURELLA, Luca, P2-094, P4-084,
TURNER, Jessica, P3-095,
TYLER, Lorraine K, P3-002,
TZAGARAKIS, Charidimos, P2-083,

U
UCHIKAWA, Yoshinori, P2-043,
P4-004,
UEHARA, Gen, P1-020, P2-005,
P2-038, P2-049,
UENO, Shoogo, P2-072, P3-100,
P4-105,
UHLHAAS, Peter J., P1-030,
P1-060,
UJITA, Koichi, P4-040, P4-045,
URAKAMI, Yuko, S8, S11,
URBAIN, Charline M., P1-019,
P1-075, P2-016, P3-019,
P3-026,
USUBUCHI, Hajime, P1-063,

V
VAINA, Lucia M., P4-081,
VALESCO, Marc, P2-014,
VAN ACKEREN, Markus J., P3-016,
VAN BOGAERT, Patrick, P2-087,
P3-017, P3-026, P3-071,
P4-049,
VAN DE NIEUWENHUIJZEN,
Marieke, P3-027,
VAN DELLEN, Edwin, S2,
VAN DER EERDEN, Jan, S16,
VAN DIJK, Hanneke, P1-067,
P2-007,
VAN GERVEN, Marcel, P3-027,
VAN HOLEN, Roel, P2-059,
VAN LEEUWEN, Peter, P4-003,
VAN MIERLO, Pieter, P2-059,

Index by Author *continued*

VAN PELT, Stan, P4-085,
 VAN RIJSBERGEN, Nicola, P4-086,
 VAN ROOIJ, Iris, P4-085,
 VAN ROOST, Dirk, P2-059,
 VAN TOOREN - HOOGENBOOM,
 Nienke, P1-067, P2-007,
 VAN WAEYENBERGE, Bartel,
 P1-048,
 VAN WIJK, Bernadette, S18,
 VANDENBERGHE, Stefaan, P2-059,
 VANDER GHINST, Marc, P3-017,
 S7,
 VARGAS - LUNA, Francisco Miguel,
 P2-033,
 VAZ, Filipe, P2-047,
 VAZQUEZ - OLVERA, Sergio,
 P2-033,
 VERGUTS, Tom, P4-020,
 VERHEULPEN, Denis, P3-026,
 VIDAURRE, Diego, P1-089, P3-070,
 VIEIRA, Taian M. M., P2-092,
 VINOGRADOV, Sophia, P1-070,
 VISANI, Elisa, P4-101,
 VIVALDI, Valentina, P2-024, P4-101,
 VOGES, Jürgen, P4-083,
 VON ALLMEN, Gretchen, ISACM
 S1,
 VONCK, Kristl, P2-059,
 VORWERK, Johannes, P1-001,
 P2-067, P4-018, P4-109, S10,

W

WAGNER, Michael, P4-106,
 WAGNER, Sven, P1-001,
 WAHL, Colin, P4-007,
 WAKAI, Ronald, P2-023, P4-007,
 S15,
 WAKEMAN, Daniel G., P4-107,
 WALDHAUSER, Gerd T., P4-087,
 WALKER, Thad, P4-007,
 WAMSLEY, Erin, P3-093,
 WANG, Peng, P3-107,
 WANG, Sheng H., P3-028,
 WARD, Lawrence, P4-062,
 WEBER, Douglas, P1-090,
 WEIS, Antoine, P2-022, P4-108,
 WEISEND, Michael, P2-025,

WEISZ, Nathan, P2-018, P2-020,
 P2-090, P2-094, P3-067,
 P4-036, P4-068, P4-078,
 P4-080, P4-084, P4-094,
 P4-110, S20,

WELLMER, Jörg, P2-067,
 WELLS, William, P4-044,
 WENDLING, Fabrice, P2-080,
 WENS, Vincent, P2-087, P3-017,
 P3-071, P4-049,
 WEST, Sarah, P2-083,
 WESTNER, Britta, P4-064, P4-087,
 P4-088,

WHEAT, Katie, P3-015,
 WHELESS, James, P3-014,
 WHITE, Matthew L., P2-069,
 WHITMARSH, Stephen, P2-050,
 WIANDA, Elvis, P1-086, P3-072,
 WIBRAL, Michael, S4, S18,
 WIDJAJA, Elysa, P4-096,
 WIECZOREK, Kacper, P1-011,
 WIEKHORST, Frank, P1-046,
 P1-047, P1-049, S6,
 WIENBRUCH, Christian, P2-090,
 WILHELMI, Corbin, P3-095,
 WILSON, Sue, P3-088,
 WILSON, Tony, P2-062, P2-069,
 P3-104, P3-109, P3-022,
 WINKLER, Dag, P2-050,
 WISLOWSKA, Malgorzata, P4-098,
 WITKOWSKI, Matthias, S10,
 WITTE, Otto W, P2-054, P2-031,
 WITTENBERG, Marc, P1-067,
 WITTON, Caroline, P3-005, P3-102,
 WOLTERS, Carsten, P1-001, P2-
 067, P4-018, P4-109,
 WONG, Agnes, P4-065,
 WONG, Daniel, P1-042, P4-088,
 WONG, Willy, P4-103,
 WOODMAN, Marmaduke, P2-070,
 WOOLRICH, Mark, P1-060, P1-089,
 P3-031, P3-039, P3-058,
 P3-061, P3-070, P4-063,
 P4-047, P4-097, S4,
 WOOTTON, Cassandra, P3-092,
 WORTHEN, Sian, P3-102,
 WREH II, Christopher, P3-098,
 WYART, Valentin, P2-001,

X

XIANG, Jing, P2-053, P3-073,
 XIE, Minshu, P2-050,

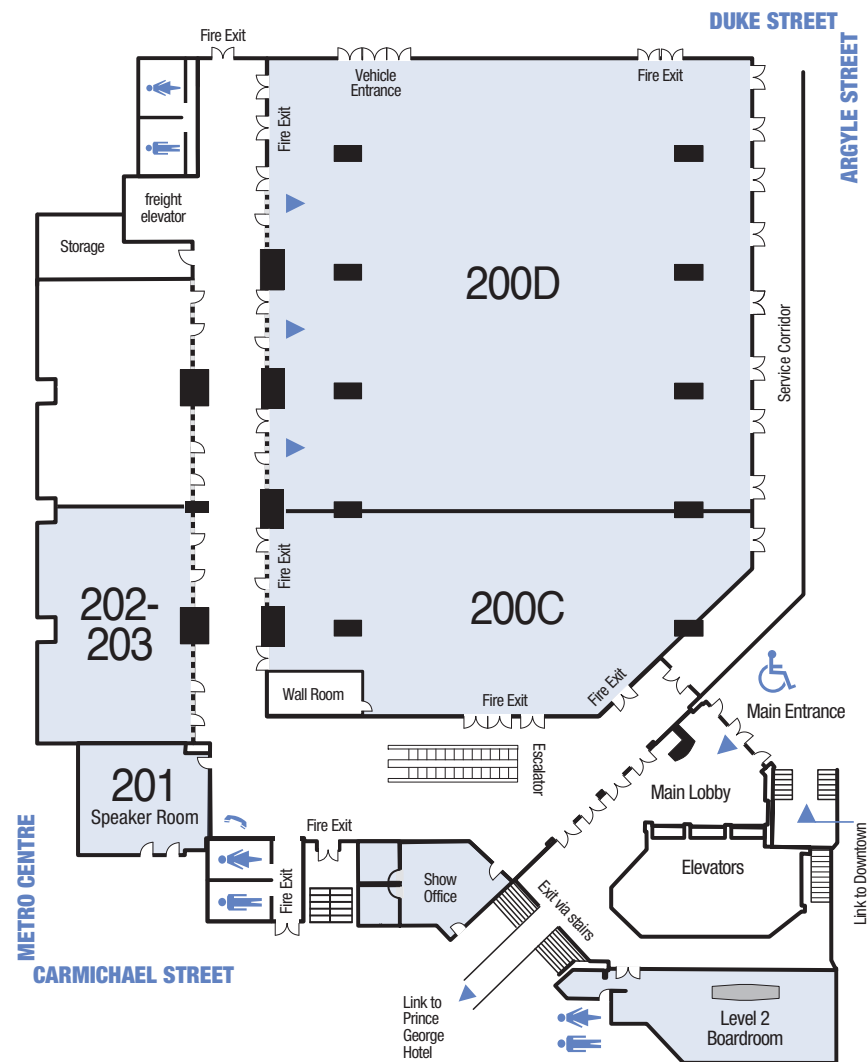
Y

YAGYU, Kazuyori, P4-041, S23,
 YAHATA, Izumi, P1-063,
 YAHIA CHERIF, Lydia, P1-004,
 YAMAGUCHI, Miho, P4-040,
 P4-045,
 YAMASAKI, Takao, P4-072,
 YAMASHITA, Okito, P4-024,
 YANAGISAWA, Takufumi, P3-001,
 P3-069,
 YANG, H.C., P1-045, P2-008,
 YAO, Zhijian, P1-065,
 YATOMI, Yutaka, P3-021,
 YE, Annette X., P1-083, P2-077,
 P4-061, S17,
 YEOM, Hong Gi, P1-094,
 YOKOSAWA, Koichi, P1-022,
 P1-034, P3-029,
 YOKOYAMA, Kazuhiro, P2-039,
 YORIFUJI, Shiro, P3-001, P3-069,
 YOSHIMINE, Toshiki, P3-069,
 YOSHIMURA, Yuko, P4-032,
 YOSHIZAWA, Masahito, P2-043,
 P4-004,
 YOUNG, Amber, P2-025,
 YU, Hsin-Yen, P3-030,
 YU, Kwon Kyu, P2-029, P3-079,
 P3-081, P1-053,
 YUMOTO, Masato, P2-002, P3-021,
 YUNOKUCHI, Kazutomo, P3-083,

Z

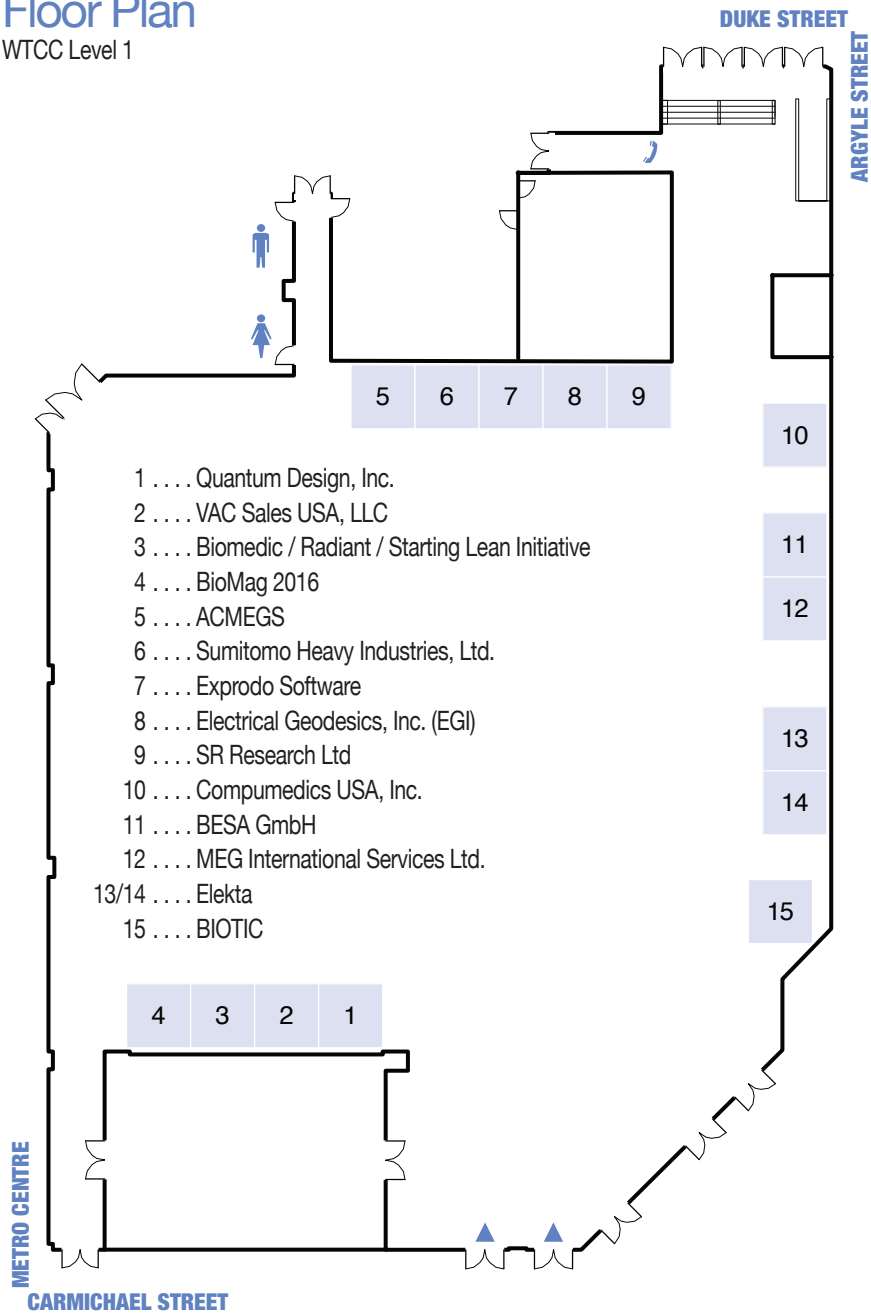
ZACHARIAS, Norman, P3-023,
 ZAEHLE, Tino, P4-083,
 ZAMPINI, Massimiliano, P4-036,
 ZANOW, Frank, P2-047,
 ZAPPASODI, Filippo, P3-057,
 ZARATE, Carlos, P3-089, P4-057,
 ZEEV-WOLF, Maor, P3-094,
 ZEILLER, Monika, P3-020, P3-074,
 P4-019,
 ZENTNER, Lena, P2-047,
 ZEROUALI, Younes, P3-075,
 ZEVENHOVEN, Koos C J, P4-112,
 ZHANG, Chen, P4-005,
 ZHANG, Tongsheng, P1-085,
 ZHANG, Yanping, P2-039,
 ZILLGITT, Andrew, P1-064,
 ZION GOLUMBIC, Elana, P2-014,
 ZRINZO, Ludvic, P2-066,
 ZUMER, Johanna, P4-030, S3,

WTCC Level 2 Floor Plan



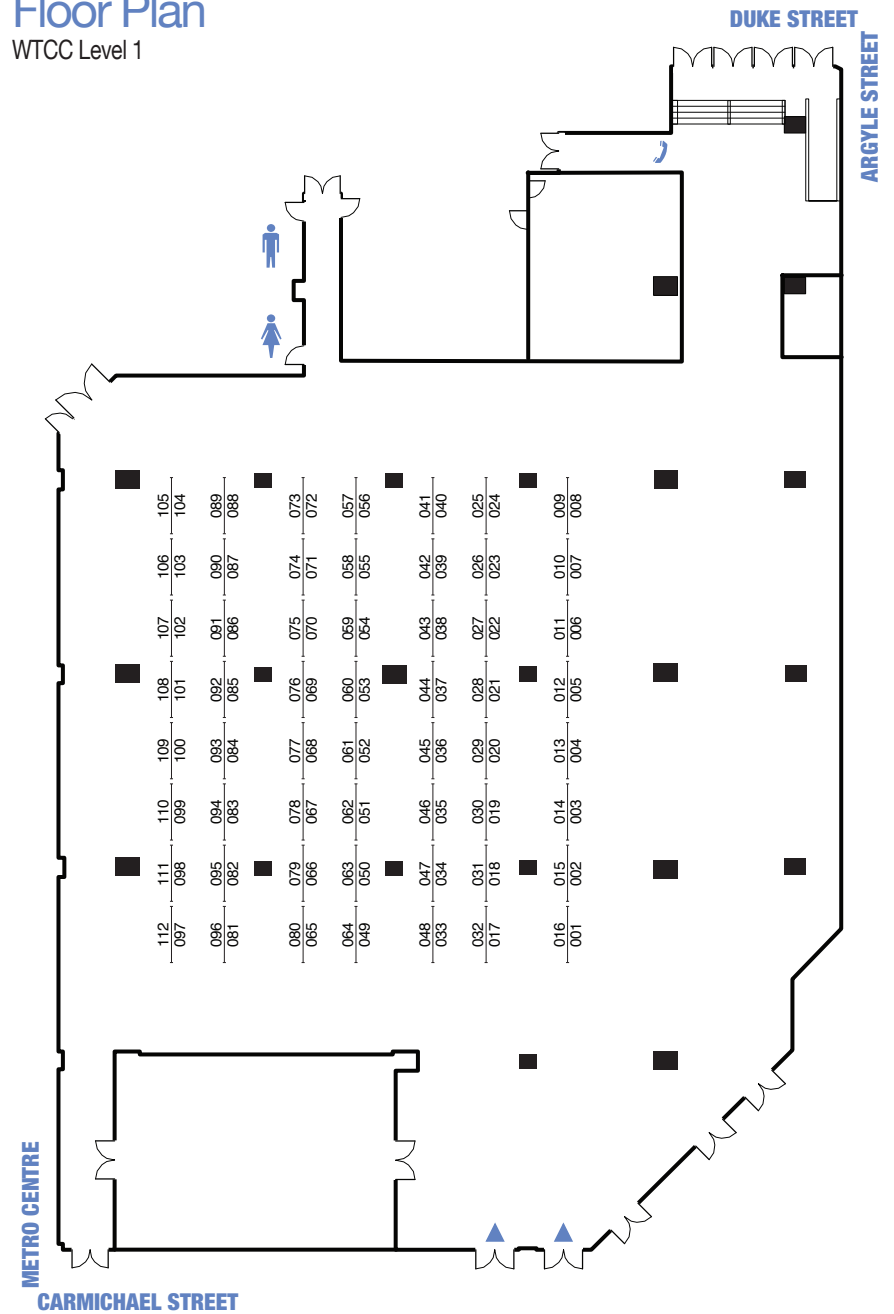
Exhibitor Floor Plan

WTCC Level 1



Poster Session Floor Plan

WTCC Level 1



This image shows a full page of a document template. It consists of approximately 30 evenly spaced horizontal dotted lines across the entire width of the page, providing a guide for handwriting or typing. There are no margins, text, or other markings present.

[illegible]

Notes

Attractions

- 1

Alexander Keith's Brewery
- 2

Art Gallery Of Nova Scotia
- 3

Information Centre
- 4

Bishop's Landing
- 5

Casino Nova Scotia
- 6

Cathedral Church of All Saints
- 7

City Hall
- 8

Cornwallis Street Baptist Church
- 9

Discovery Centre
- 10

Ferry Terminal
- 11

Government House
- 12

Halifax Explosion Carillon
- 13

Little Dutch Church
- 14

Maritime Museum of the Atlantic
- 15

Museum of Natural History
- 16

Neptune Theatre
- 17

NS Centre for Craft and Design
- 18

NS Sport Hall of Fame
- 19

Old Town Clock
- 20

Our Lady of Sorrows Church
- 21

Pier 21 National Historic Site
- 22

Historic Properties
- 23

Province House
- 24

St. David's Church
- 25

St. Mary's Basilica
- 26

St. Matthew's Church
- 28

Train Station
- 29

St. Paul's Anglican Church
- 30

Cunard Centre

Accommodations

- 1

Cambridge Suites
- 2

Marriott
- 3

Lord Nelson
- 4

Dalhousie
- 5

Delta Halifax
- 6

Delta Barrington
- 7

Four Points
- 8

Future Inns
- 9

Holiday Inn
- 10

Atlantica
- 11

Halburton
- 12

Courtyard
- 13

Citadel
- 14

MSU
- 15

Prince George
- 16

Quality Inns
- 17

Radisson
- 18

Residence Inn
- 19

SMU
- 20

Westin

P Parking

? Information

APPROX. SCALE:
1 INCH = 0.25 KM



PLATINUM SPONSOR



GOLD SPONSOR



SILVER SPONSORS



INSTITUTION LEVEL



COFFEE BREAK



DELEGATE BAG



SUPPORTED BY

